EDAL INDUSTRIES INCORPORATED

RECTIFIERS

DIODES BRIDGES

POWER RECTIFIERS

HIGH VOLTAGE ASSEMBLIES

HIGH VOLTAGE RECTIFIERS

VARISTORS

SPECIAL DESIGNS

51 COMMERCE STREET
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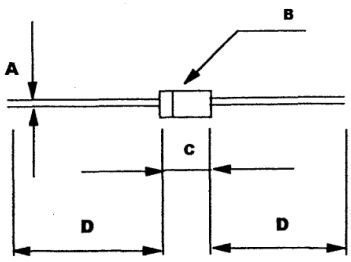
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WWW.EDAL.COM

DIODES

EDAL

SERIES BA5/1N4000

SILICON GENERAL PURPOSE 1.0 AMP DIODES



	INCHES		MILLIMETER	
DIM	MIN.	MAX.	MIN.	MAX.
A	0.028	0.034	0.71	0.86
B	0.08	0.107	2.03	2.74
C	0.160	0.205	4.10	5.20
D	1.0		25.4	

Io 1 Amp @ 50 C

Is 30 AMPS

Vf 1.4 max. v @ 1.0 amp @ 25 C

Ir 10 uA max. @ PIV @ 25 C

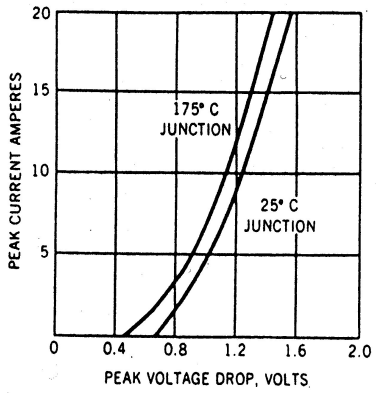
STYLE DO – 41 Plastic

PIV (VOLTS)	P/N	P/N
50	BA5A5	1N4001
100	BA5B5	1N4002
200	BA5C5	1N4003
300	BA5D5	
400	BA5E5	1N4004
500	BA5F5	
600	BA5G5	1N4005
700	BA5H5	
800	BA5K5	1N4006
1000	BA5M5	1N4007
1200	BA5N5	
1500	BA5P5	

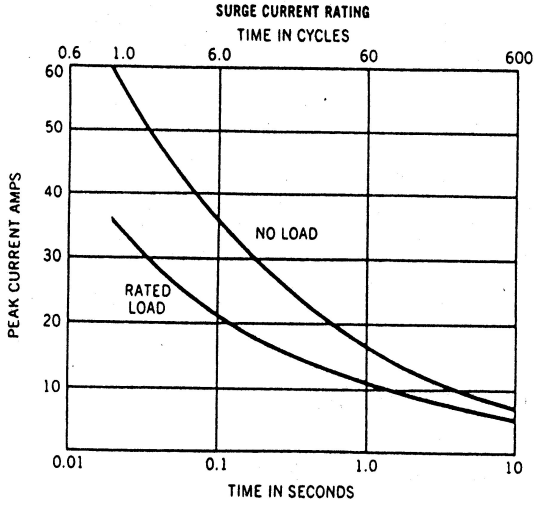
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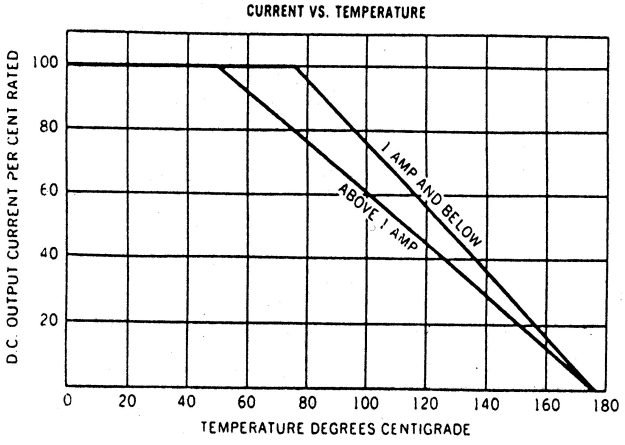
PEAK FORWARD CURRENT VS PEAK FORWARD VOLTAGE DROP



SURGE CURRENT RATING



CURRENT VS. TEMPERATURE



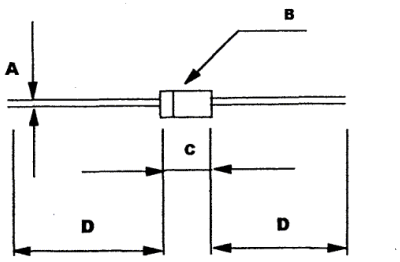
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EDAL

SERIES BR5/BS5/BT5

SILICON FAST RECOVERY 1.0 AMP DIODES



	INCHES		MILLIMETER	
DIM	MIN.	MAX.	MIN.	MAX.
A	0.028	0.034	0.71	0.86
B	0.08	0.107	2.03	2.74
C	0.160	0.205	4.10	5.20
D	1.0		25.4	

Io 1 Amp @ 50 C

Is 60 AMPS

Vf 1.4 max. v @ 1.0 amp @ 25 C

Ir 10 uA max. @ PIV @ 25 C

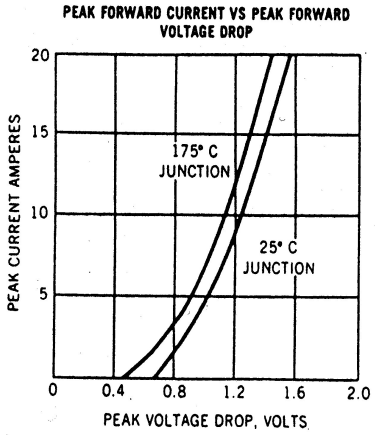
STYLE DO – 41 Plastic

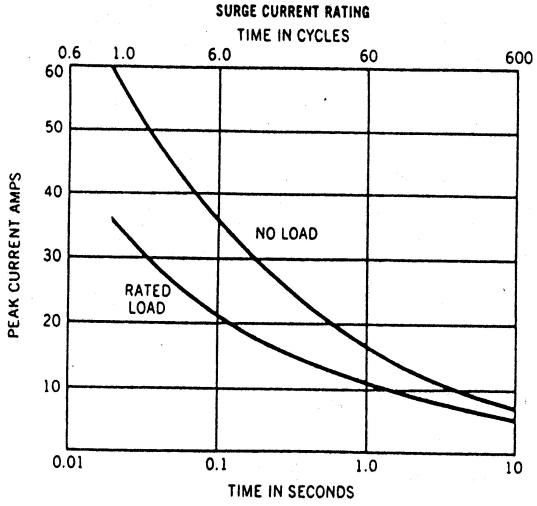
Trr – Recovery Time measured from .5 amp forward to 1 amp reverse to .25 amp

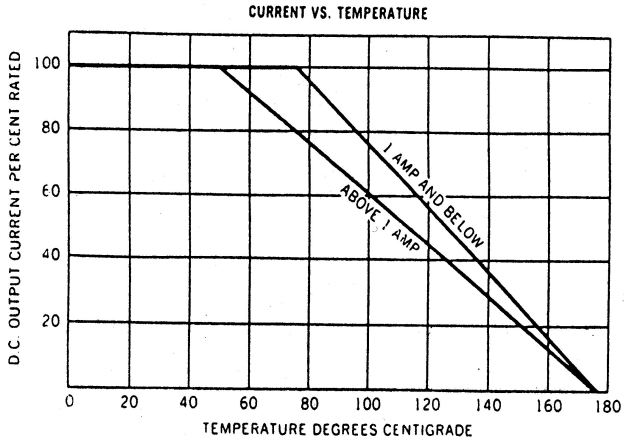
PIV (VOLTS)	P/N	Trr NSec	P/N	Trr NSec	P/N	Trr NSec
50	BR5A5	400	BS5A5	150	BT5A5	50
100	BR5B5	400	BS5B5	150	BT5B5	50
200	BR5C5	400	BS5C5	150	BT5C5	50
300	BR5D5	400	BS5D5	150	BT5D5	50
400	BR5E5	400	BS5E5	150	BT5E5	50
500	BR5F5	500	BS5F5	250	BT5F5	100
600	BR5G5	500	BS5G5	250	BT5G5	100
700	BR5H5	500	BS5H5	250	BT5H5	100
800	BR5K5	500	BS5K5	250	BT5K5	100
1000	BR5M5	500	BS5M5	250	BT5M5	100

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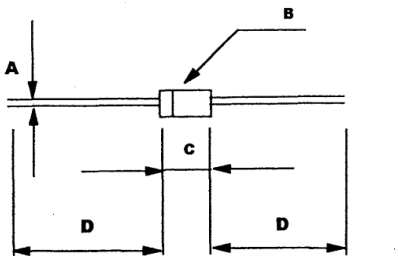
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EDAL

SERIES B8

SILICON GENERAL PURPOSE 2.0 AMP DIODES



	INCHES		MILLIMETER	
DIM.	MIN.	MAX.	MIN.	MAX
A	0.028	0.034	0.71	0.86
B	0.08	0.107	2.03	2.74
C	0.160	0.205	4.10	5.20
D	1.00		25.4	

Io 2 Amp @ 25 C

Is 60 AMPS

Vf 1.0 max. v @ 2.0 amp @ 50 C

Ir 5 uA max. @ PIV @ 25 C

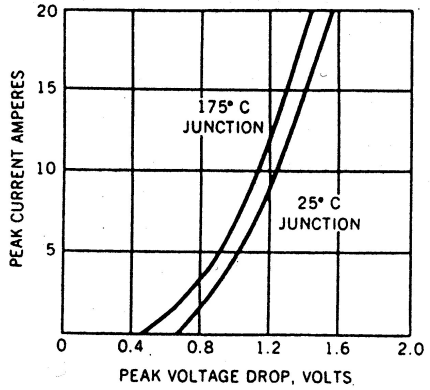
STYLE DO – 41 Plastic

PIV (VOLTS)	P/N
50	B8A5
100	B8B5
200	B8C5
300	B8D5
400	B8E5
500	B8F5
600	B8G5
700	B8H5
800	B8K5
1000	B8M5
1200	B8N5
1500	B8P5

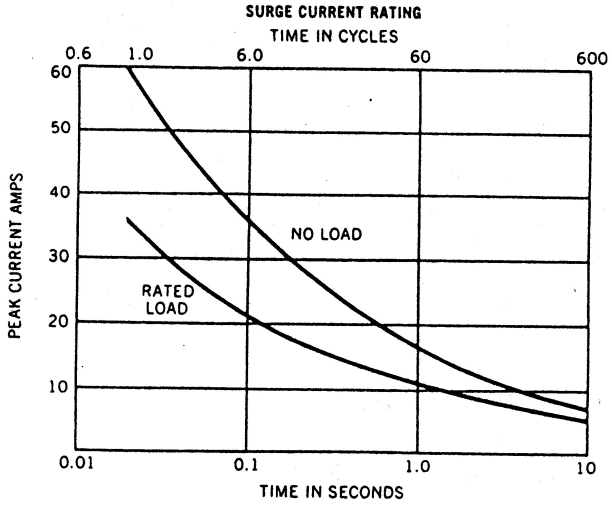
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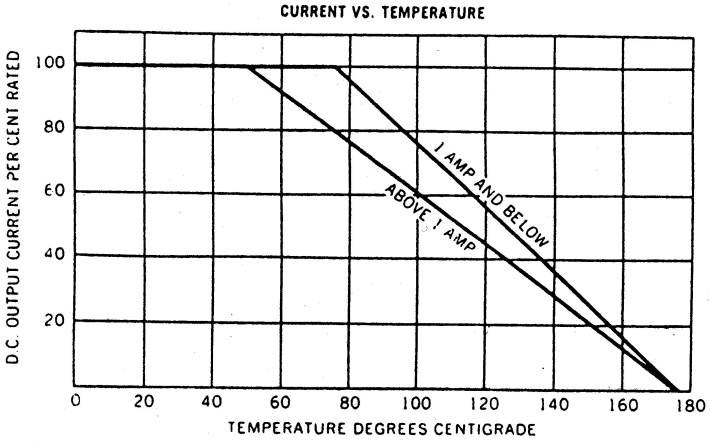
PEAK FORWARD CURRENT VS PEAK FORWARD VOLTAGE DROP



SURGE CURRENT RATING



CURRENT VS. TEMPERATURE



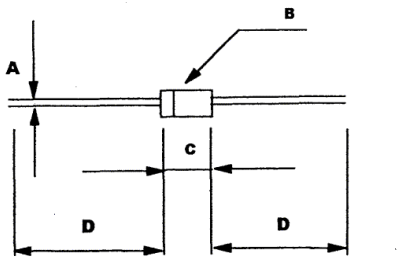
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EDAL

SERIES BR8/BS8/BT8

SILICON FAST RECOVERY 2.0 AMP DIODES



	INCHES		MILLIMETER	
DIM.	MIN.	MAX.	MIN.	MAX
A	0.028	0.034	0.71	0.86
B	0.08	0.107	2.03	2.74
C	0.160	0.205	4.10	5.20
D	1.00		25.4	

Io 2 Amp @ 50 C

Is 60 AMPS

Vf 1.4 max. v @ 2.0 amp @ 25 C

Ir 20 uA max. @ PIV @ 25 C

STYLE DO – 41 Plastic

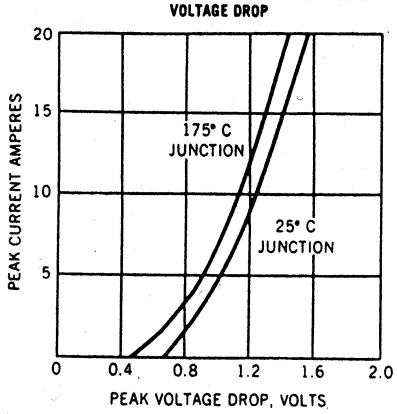
Trr – Recovery Time measured from .5 amp forward to 1 amp reverse to .25 amp

PIV (VOLTS)	P/N	Trr Sec.	P/N	Trr NSec.	P/N	Trr NSec.
50	BR8A5	400	BS8A5	150	BT8A5	50
100	BR8B5	400	BS8B5	150	BT8B5	50
200	BR8C5	400	BS8C5	150	BT8C5	50
300	BR8D5	400	BS8D5	150	BT8D5	50
400	BR8E5	400	BS8E5	150	BT8E5	50
500	BR8F5	500	BS8F5	250	BT8F5	100
600	BR8G5	500	BS8G5	250	BT8G5	100
700	BR8H5	500	BS8H5	250	BT8H5	100
800	BR8K5	500	BS8K5	250	BT8K5	100
1000	BR8M5	500	BS8M5	250	BT8M5	100

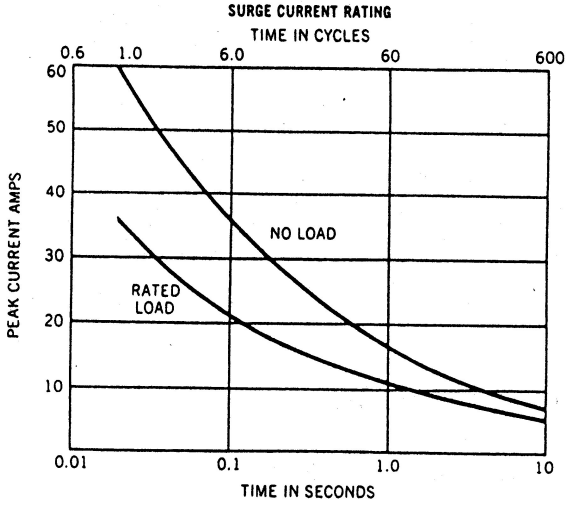
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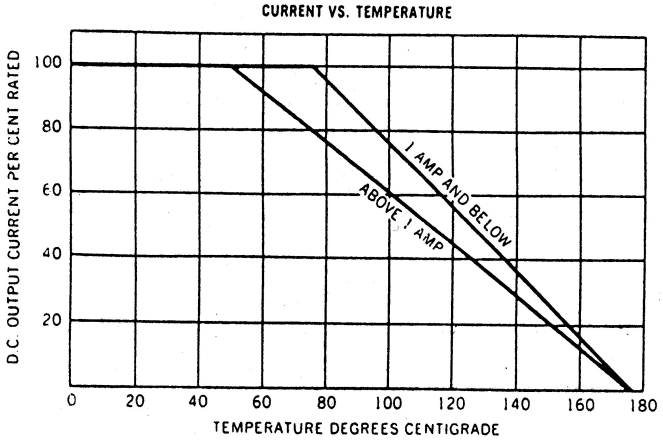
PEAK FORWARD CURRENT VS PEAK FORWARD VOLTAGE DROP



SURGE CURRENT RATING



CURRENT VS. TEMPERATURE



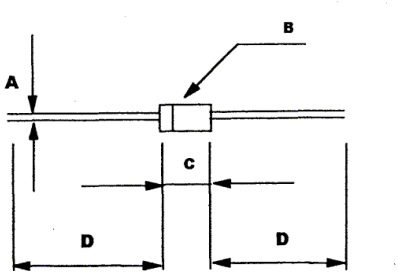
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EDAL

SERIES MA4/BA491/1N5000

SILICON GENERAL PURPOSE 3.0 AMP DIODES



	INCHES		MILLIMETER	
DIM.	MIN.	MAX.	MIN.	MAX.
A	0.048	0.052	1.02	1.30
B	0.19	0.21	4.80	5.30
C	0.285	0.375	7.20	9.50
D	1.00		25.4	

Io 3 Amp @ 50 C

Is 200 AMPS

Vf 1.3 max. v @ 3.0 amp @ 25 C

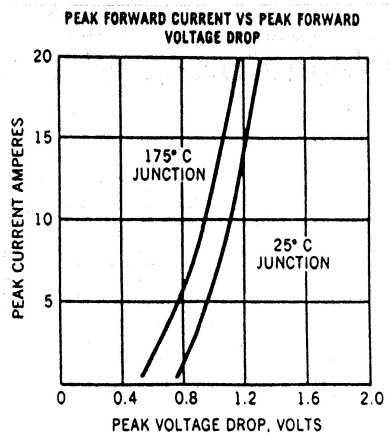
Ir 25 uA max. @ PIV @ 25 C

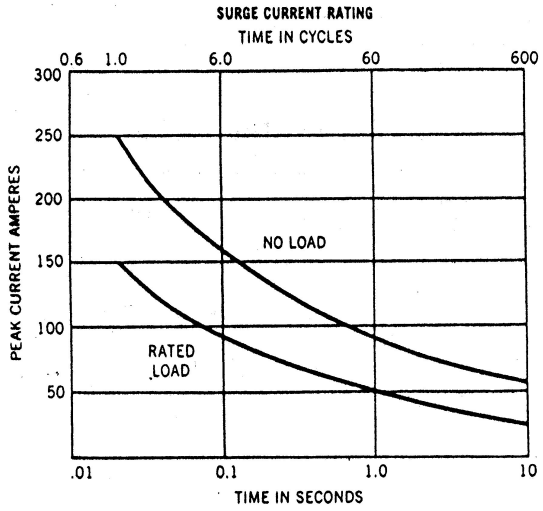
STYLE DO – 27A, DO-201AD Plastic

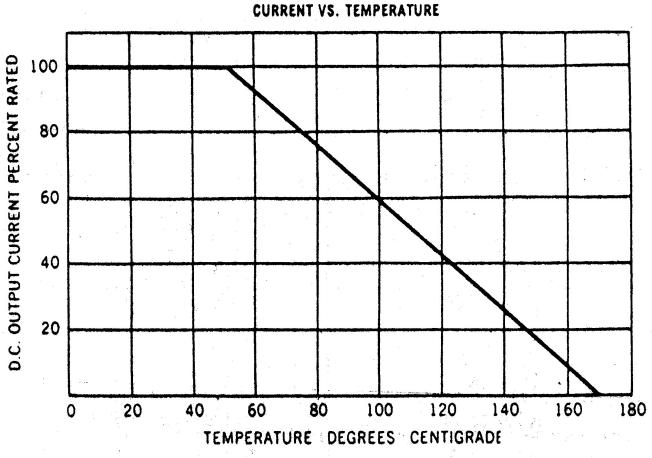
PIV (VOLTS)	P/N	P/N	P/N
50	MA4A5	BA491-5	1N5400
100	MA4B5	BA491-10	1N5401
200	MA4C5	BA491-20	1N5402
300	MA4D5	BA491-30	1N5403
400	MA4E5	BA491-40	1N5404
500	MA4F5	BA491-50	1N5405
600	MA4G5	BA491-60	1N5406
700	MA4H5	BA491-70	
800	MA4K5	BA491-80	1N5407
1000	MA4M5	BA491-100	1N5408
1200	MA4N5	BA491-120	
1500	MA4P5	BA491-150	

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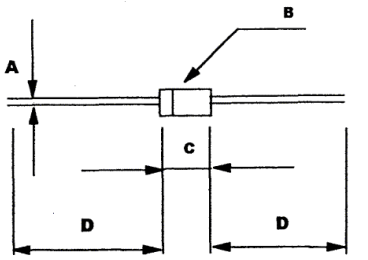
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EDAL

SERIES MR4/MS4/MT4

SILICON FAST RECOVERY 3.0 AMP DIODES



	INCHES		MILLIMETER	
DIM.	MIN.	MAX.	MIN.	MAX
A	0.048	0.052	1.02	1.30
B	0.19	0.21	4.80	5.30
C	0.285	0.375	7.20	9.50
D	1.00		25.4	

Io 3 Amp @ 50 C

Is 200 AMPS

Vf 1.4 max. v @ 3.0 amp @ 25 C

Ir 25 uA max. @ PIV @ 25 C

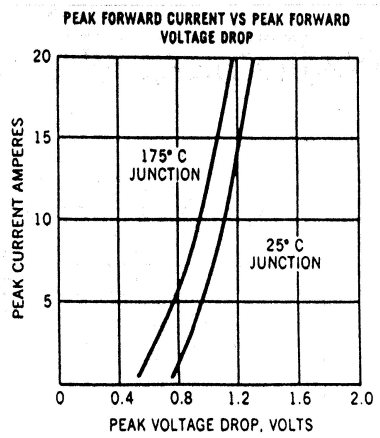
STYLE: DO-27A, DO-201AD PLASTIC

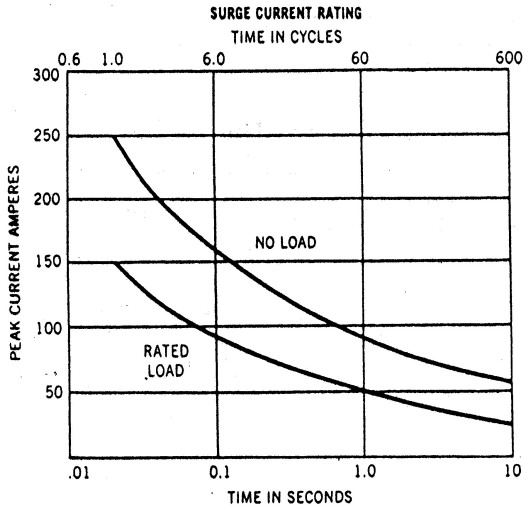
Trr – Recovery Time measured from .5 amp forward to 1 amp reverse to .25 amp

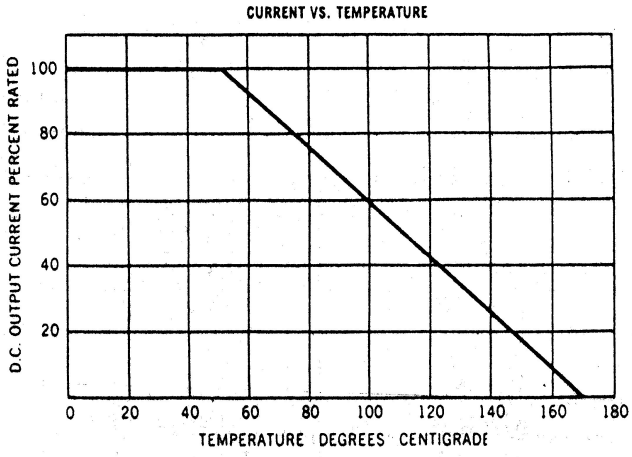
PIV (VOLTS)	P/N	Trr NSec.	P/N	Trr NSec.	P/N	Trr NSec.
50	MR4A5	400	MS4A5	150	MT4A5	100
100	MR4B5	400	MS4B5	150	MT4B5	100
200	MR4C5	400	MS4C5	150	MT4C5	100
300	MR4D5	400	MS4D5	150	MT4D5	100
400	MR4E5	400	MS4E5	150	MT4E5	100
500	MR4F5	500	MS4F5	250	MT4F5	150
600	MR4G5	500	MS4G5	250	MT4G5	150
700	MR4H5	500	MS4H5	250	MT4H5	150
800	MR4K5	500	MS4K5	250	MT4K5	150
1000	MR4M5	500	MS4M5	250	MT4M5	150

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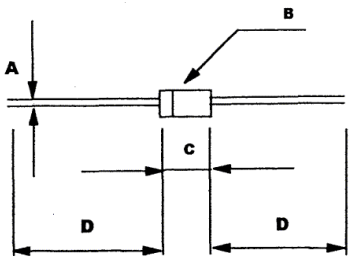
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EDAL

SERIES M5/B823

SILICON GENERAL PURPOSE 5.0 AMP DIODES



	INCHES		MILLIMETER	
DIM.	MIN.	MAX.	MIN.	MAX.
A	0.048	0.052	1.02	1.30
B	0.19	0.21	4.80	5.30
C	0.285	0.375	7.20	9.50
D	1.00		25.4	

Io 5 Amp @ 50 C

Is 300 AMPS

Vf 1.0 max. v @ 5.0 amp @ 25 C

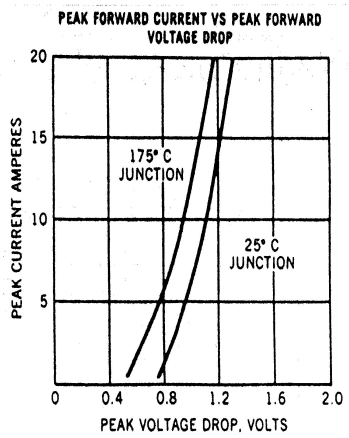
Ir 20 uA max. @ PIV @ 25 C

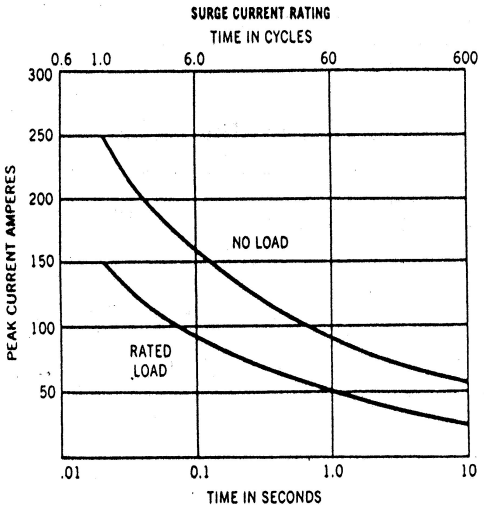
STYLE DO – 27A, DO-201AD Plastic

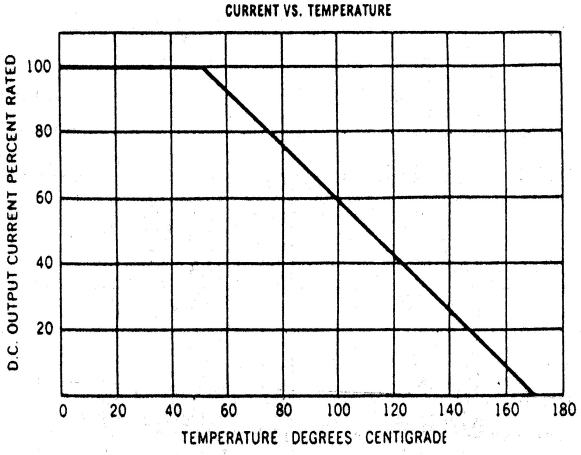
PIV (VOLTS)	P/N	P/N
50	M5A5	B823-5
100	M5B5	B823-10
200	M5C5	B823-20
300	M5D5	
400	M5E5	B823-40
500	M5F5	
600	M5G5	B823-60
700	M5H5	
800	M5K5	B823-80
1000	M5M5	B823-100
1200	M5N5	
1500	M5P5	

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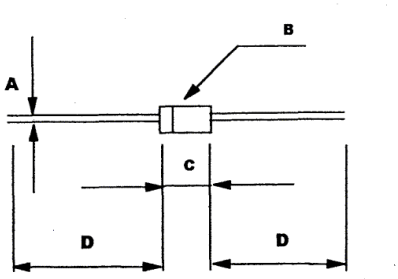
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EDAL

SERIES MR5/MS5/MT5

SILICON FAST RECOVERY 5.0 AMP DIODES



	INCHES		MILLIMETER	
DIM.	MIN.	MAX.	MIN.	MAX.
A	0.048	0.052	1.02	1.30
B	0.19	0.21	4.80	5.30
C	0.285	0.375	7.20	9.50
D	1.00		25.4	

Io 5 Amp @ 50 C

Is 300 AMPS

Vf 1.4 max. v @ 5.0 amp @ 25 C

Ir 50 uA max. @ PIV @ 25 C

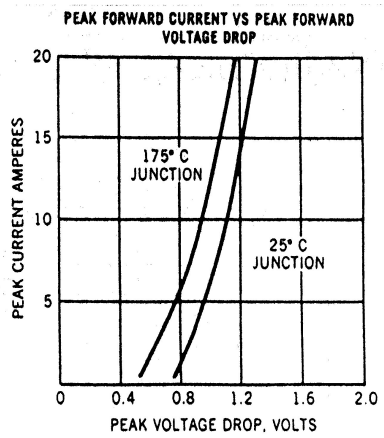
STYLE: DO-27A DO-201AD

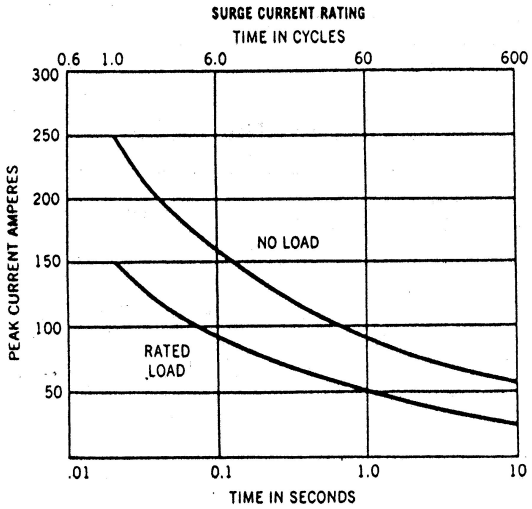
Trr – Recovery Time measured from .5 amp forward to 1 amp reverse to .25 amp

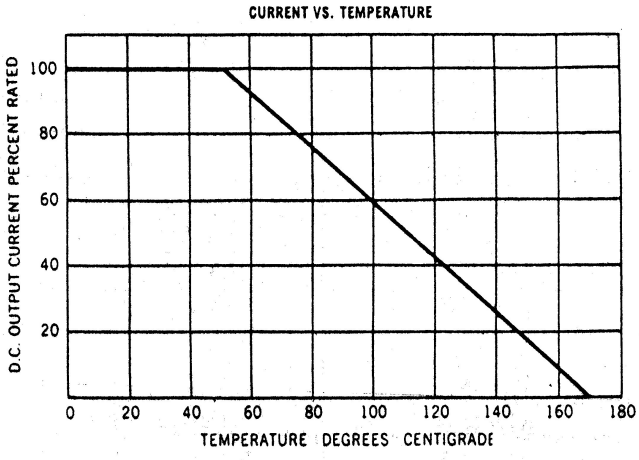
PIV (VOLTS)	P/N	Trr Nsec.	P/N	Trr NSec.	P/N	Trr NSec.
50	MR5A5	400	MS5A5	200	MT5A5	150
100	MR5B5	400	MS5B5	200	MT5B5	150
200	MR5C5	400	MS5C5	200	MT5C5	150
300	MR5D5	400	MS5D5	200	MT5D5	150
400	MR5E5	400	MS5E5	200	MT5E5	150
500	MR5F5	500	MS5F5	300	MT5F5	200
600	MR5G5	500	MS5G5	300	MT5G5	200
700	MR5H5	500	MS5H5	300	MT5H5	200
800	MR5K5	500	MS5K5	300	MT5K5	200
1000	MR5M5	500	MS5M5	300	MT5M5	200

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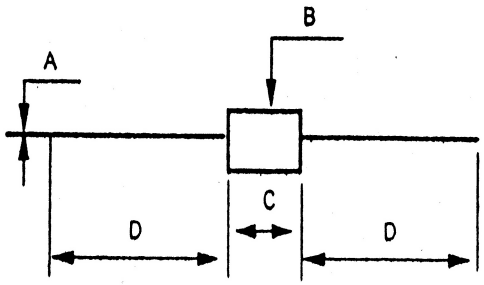
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EDAL

SERIES M7

SILICON GENERAL PURPOSE 6.0 AMP DIODES



	INCHES	
DIM.	MIN.	MAX.
A	0.047	0.053
B	0.362	0.389
C	0.362	0.389
D	.750	

Io 6 Amp @ 50 C

Is 400 AMPS

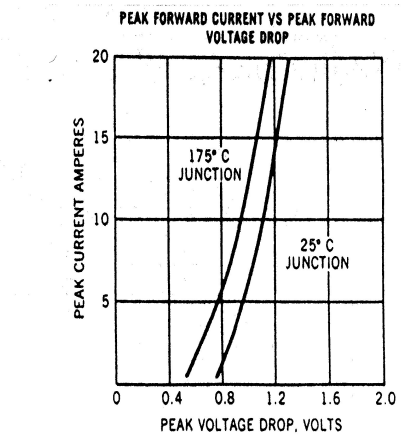
Vf 1.0 max V @ 6 AMP @ 25 C

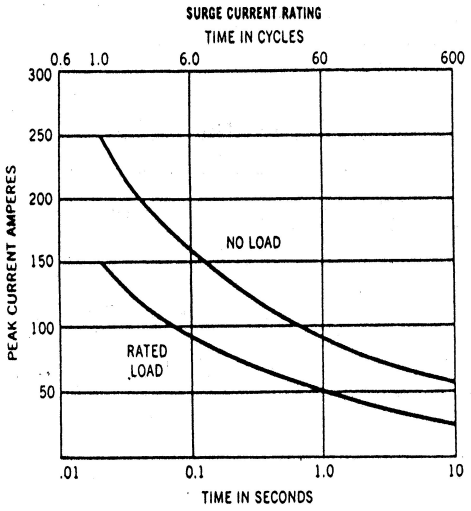
Ir 25 uA max @ PIV @ 25 C

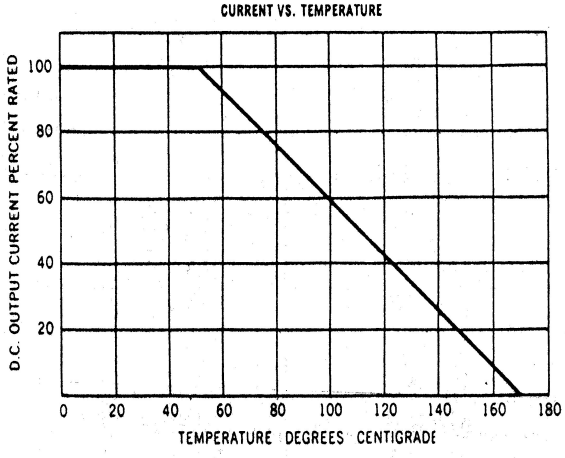
PIV (VOLTS)	P/N
50	M7A5
100	M7B5
200	M7C5
300	M7D5
400	M7E5
500	M7F5
600	M7G5
700	M7H5
800	M7K5
1000	M7M5
1200	M7N5
1500	M7P5

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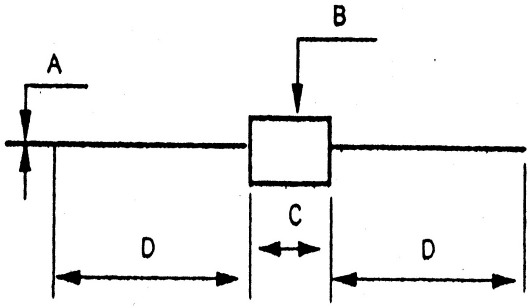
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EDAL

SERIES MR7/MS7/MT7

SILICON FAST RECOVERY 6.0 AMP DIODES



	INCHES	
DIM.	MIN.	MAX.
A	0.047	0.053
B	0.362	0.389
C	0.362	0.389
D	.750	

Io 6 Amp @ 50 C

Is 400 AMPS

Vf 1.4 max V @ 6 AMP @ 25 C

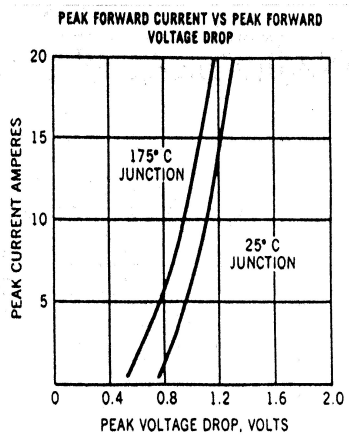
Ir 60 uA max @ PIV @ 25 C

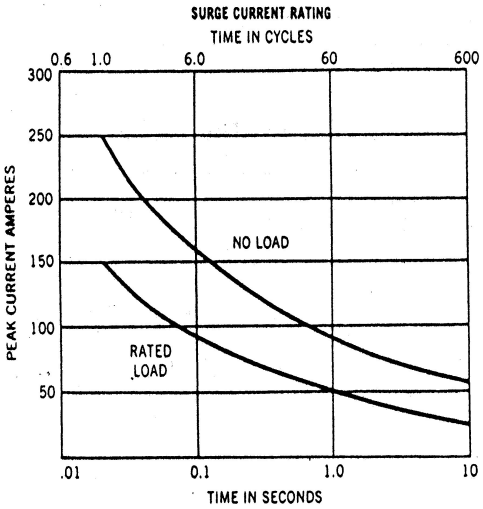
Trr – Recovery Time measured from .5 amp forward to 1 amp reverse to .25 amp

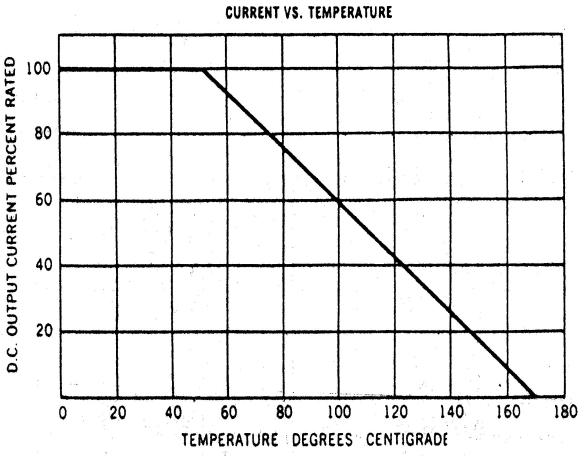
PIV (VOLTS)	P/N	Trr NSec.	P/N	Trr NSec.	P/N	Trr NSec.
50	MR7A5	400	MS7A5	200	MT7A5	150
100	MR7B5	400	MS7B5	200	MT7B5	150
200	MR7C5	400	MS7C5	200	MT7C5	150
300	MR7D5	400	MS7D5	200	MT7D5	150
400	MR7E5	400	MS7E5	200	MT7E5	150
500	MR7F5	500	MS7F5	300	MT7F5	200
600	MR7G5	500	MS7G5	300	MT7G5	200
700	MR7H5	500	MS7H5	300	MT7H5	200
800	MR7K5	500	MS7K5	300	MT7K5	200
1000	MR7M5	500	MS7M5	300	MT7M5	200

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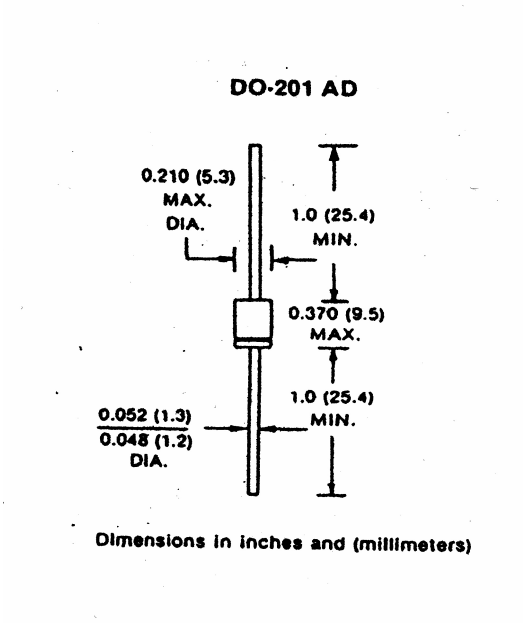
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SERIES HER101 - 108

SUB- MINIATURE SILICON ULTRA FAST RECOVERY RECTIFIER

HER SERIES FEATURES:

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capabilities
- Low reverse current
- Ultrafast recovery



Electrical Ratings									
	HER 101	HER 102	HER 103	HER 104	HER 105	HER 106	HER 107	HER 108	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	50	100	200	300	400	600	800	1000	V
MAXIMUM RMS VOLTAGE	35	70	140	210	280	420	560	700	V
MAXIMUM DC BLOCKING VOLTAGE	50	100	200	300	400	600	800	1000	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT .375" LEAD LENGTH AT $T_A = 55^O$ C	1.0								A
PEAK FORWARD SURGE CURRENT SINGLE CYCLE ON RATED LOAD (JEDEC METHOD)	30								A
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE AT 1.0 A	1.1					1.4			V
MAXIMUM REVERSE RECOVERY TIME (NOTE 1)	50					75			nS
MAX IMUM DC REVERSE CURRENT $T_A = 25^O$ C At RATED DC BLOCKING VOLTAGE $T_A = 100^O$ C	5.0 50								uA
TYPICAL JUNCTION CAPACITANCE (NOTE 2)	20					15			pF
OPERATING AND STORAGE TEMPERATURE RANGE	-65 to +150								^oC

Rating at 25^O C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

NOTES:

1. Reverse Recovery Test Conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$
2. Measured at 1 MHz and applied reverse voltage of 4.0 V D.C.

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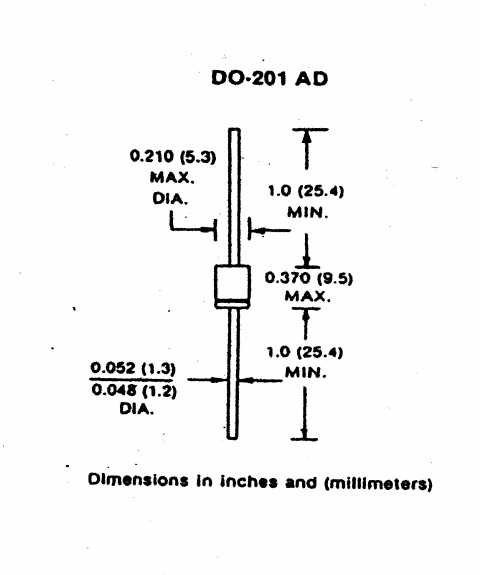
Edal

SERIES HER501 - 508

SUB- MINIATURE SILICON ULTRA FAST RECOVERY RECTIFIER

HER SERIES FEATURES:

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capabilities
- Low reverse current
- Ultrafast recovery



Electrical Ratings									
	HER 501	HER 502	HER 503	HER 504	HER 505	HER 506	HER 507	HER 508	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	50	100	200	300	400	600	800	1000	V
MAXIMUM RMS VOLTAGE	35	70	140	210	280	420	560	700	V
MAXIMUM DC BLOCKING VOLTAGE	50	100	200	300	400	600	800	1000	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT .375" LEAD LENGTH AT $T_A = 55^O$ C	5.0								A
PEAK FORWARD SURGE CURRENT SINGLE CYCLE ON RATED LOAD (JEDEC METHOD)	200								A
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE AT 5.0 A	1.1					1.4			V
MAXIMUM REVERSE RECOVERY TIME (NOTE 1)	50					75			nS
MAX IMUM DC REVERSE CURRENT $T_A = 25^O$ C At RATED DC BLOCKING VOLTAGE $T_A = 100^O$ C	5.0 50.0								uA
TYPICAL JUNCTION CAPACITANCE (NOTE 2)	100					65			pF
OPERATING AND STORAGE TEMPERATURE RANGE	-65 to +150								^oC

Rating at 25^O C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

NOTES:

1. Reverse Recovery Test Conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$
2. Measured at 1 MHz and applied reverse voltage of 4.0 V D.C.

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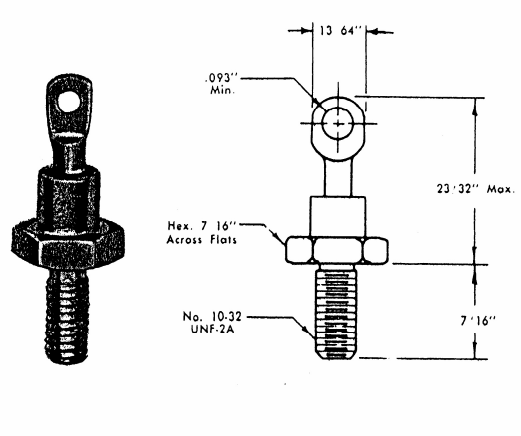
POWER DEVICES

Edal

SERIES E4, E7, E8

Silicon Power Rectifiers

Edal Series E power rectifiers are stud mounted DO-4 packages. The silicon junction is carefully fitted within a glass-to-metal hermetically sealed case, reliable operation is assured, even with extreme humidity and under other severe environmental conditions. The series E power rectifiers are completely corrosion resistant. A double diffused, passivated junction technique is utilized to provide stable uniform electrical characteristics. Inherent in their design is very low leakage currents and excellent surge handling capability. Standard, bulk avalanche and fast recovery types in voltage ratings from 50 to 1500 volts PIV are available. Series E power rectifiers are also available in reverse polarity offering extended application parameters. Edal Series E power rectifiers are ideal for use in applications where economy, power capability and reliability are demanding considerations.



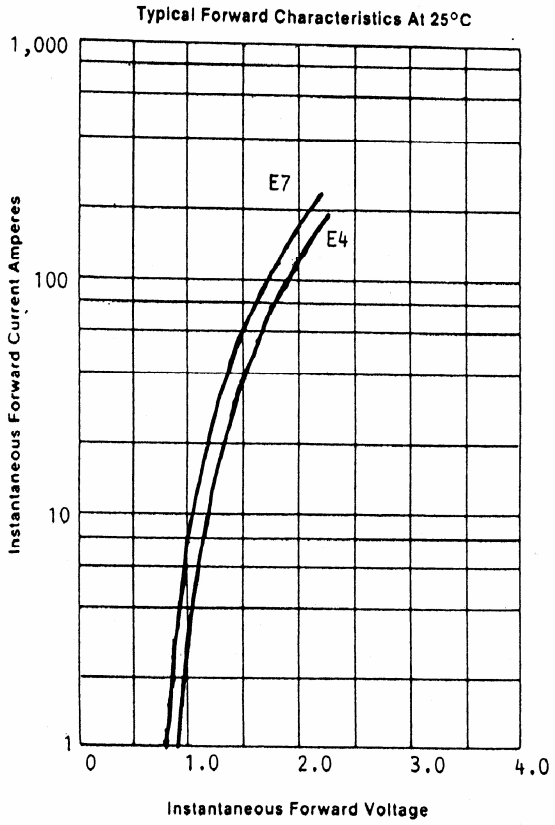
Specifications

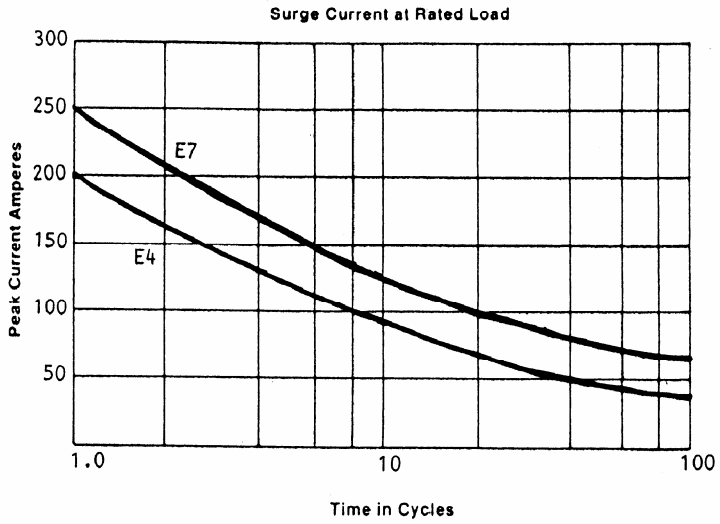
PIV VOLTS	16 AMP	22 AMP	30 AMPS
50	E4A3	E7A3	E8A3
100	E4B3	E7B3	E8B3
200	E4C3	E7C3	E8C3
250	E4D3	E7D3	E8D3
300	E4E3	E7E3	E8E3
350	E4F3	E7F3	E8F3
400	E4G3	E7G3	E8G3
500	E4H3	E7H3	E8H3
600	E4K3	E7K3	E8K3
700	E4M3	E7M3	E8M3
800	E4N3	E7N3	E8N3
1000	E4P3	E7P3	E8P3
1200	E4R3	E7R3	E8R3
1500	E4S3	E7S3	E8S3

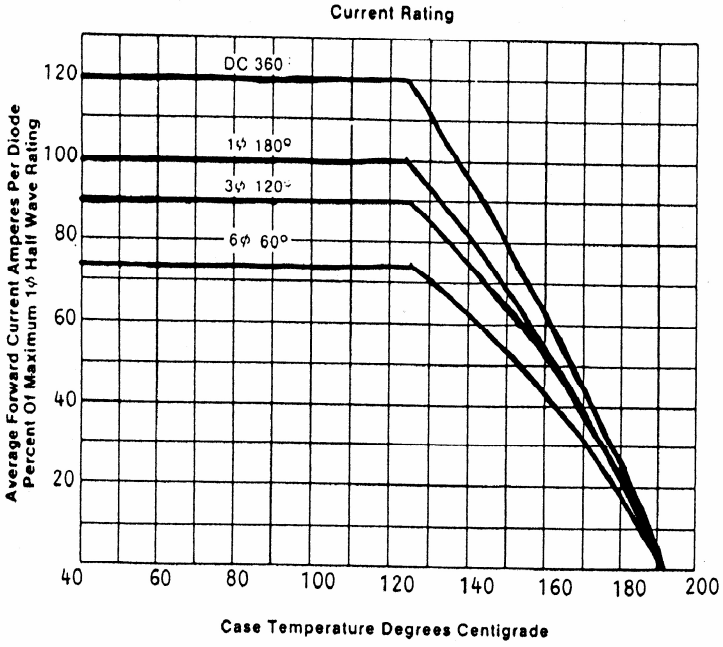
CATHODE TO STUD. FOR ANODE TO STUD ADD SUFFIX "R" TO P/N - EX - E7A3R.
TO DESIGNATE FAST RECOVERY TYPES USE LETTERS "R", "S" OR "T" EX: ES7A3. R=500 nsec, S=200 nsec, T=100 nsec
FOR AVALANCHE USE SUFFIX 9 INPLACE OF 3 Ex: E7A9
Maximum Operating Frequency 100,000 Cycles per Second

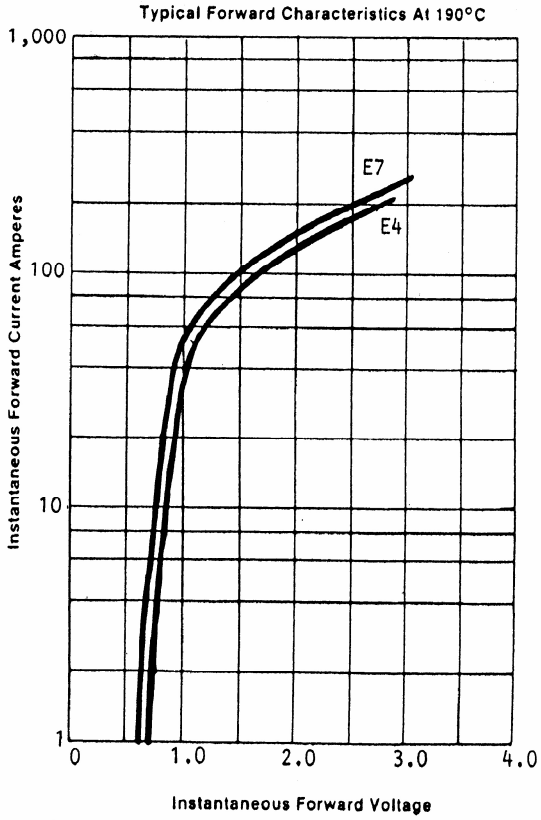
ELECTRICAL RATINGS

	E4	E7	E8
Maximum Forward Current Single Phase Half Wave Case Temperature ^{O}c Io AMPS	 126 16	 131 22	 121 30
Maximum Surge Current Single Cycle Amps	 200	 250	 300
Maximum Forward Drop @ 25^{O}C Case Io Amps Vf Volts	 30 1.3	 30 1.2	 30 1.2
Maximum Reverse Current FCA @ 150^{O}C ma	 1.0	 1.0	 1.0
Maximum I^2T (less than 8ms) Amps^2 – Sec	165	250	350
Reverse Power for Bulk Avalanche (Joules)	0.16	0.16	.16
Storage Temperature ^{O}C	-55 to +190	-55 to +190	-55 to +190
Operating Temperature ^{O}C	- 40 to +175	-40 to +175	- 40 to 175
Thermal Impedance Maximum (Junction to Case) ^{O}C/Watt Maximum	 3.0	 2.0	 3.0
Jedec Style	DO-4	DO-4	DO-4









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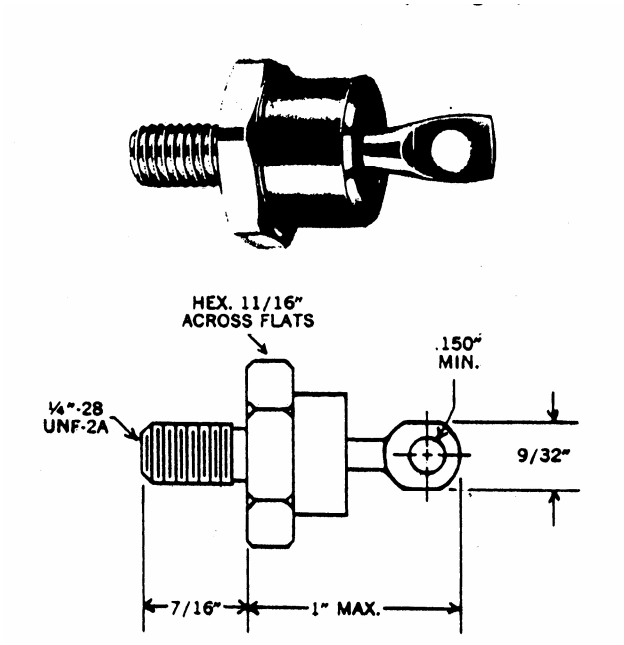
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Edal

SERIES F3, F4, F5, F6, F7

Silicon Power Rectifiers

Edal Series F power rectifiers are stud mounted DO-5 packages. Because the silicon junction is carefully fitted within a glass-to-metal hermetically sealed case, reliable operation is assured, even with extreme humidity and under other severe environmental conditions. The series F power rectifiers are completely corrosion resistant. A double diffused, passivated junction technique is utilized to provide stable uniform electrical characteristics. Inherent in their design is very low leakage currents and excellent surge handling capability. Standard, bulk avalanche and fast recovery types in voltage ratings from 50 to 1500 volts PIV are available. Series F power rectifiers are also available in reverse polarity offering extended application parameters. Edal Series F power rectifiers are ideal for a broad range of commercial and military uses including power supplies, ultrasonic systems, inverters, welders, emergency generators, battery chargers, DC motors, and motor controls.



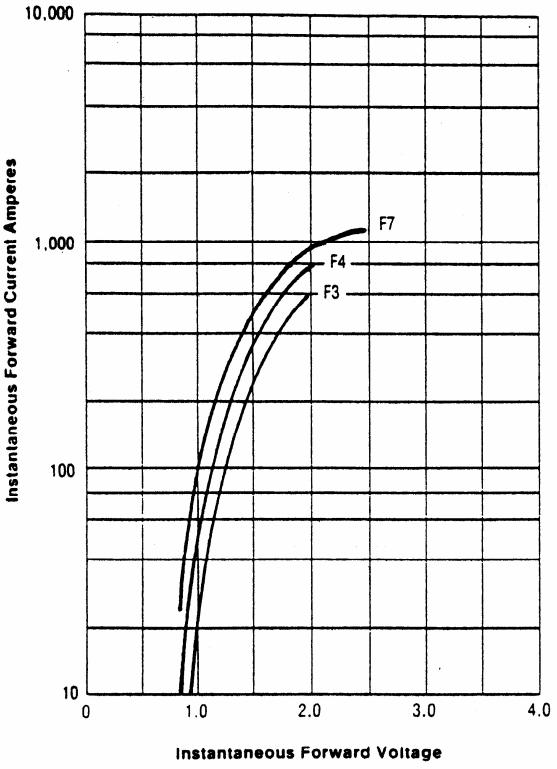
Specifications

PIV VOLTS	30 AMP	37 AMP	45 AMP	70 AMP	85 AMP
50	F3A3	F4A3	F5A3	F6A3	F7A3
100	F3B3	F4B3	F5B3	F6B3	F7B3
200	F3C3	F4C3	F5C3	F6C3	F7C3
250	F3D3	F4D3	F5D3	F6D3	F7D3
300	F3E3	F4E3	F5E3	F6E3	F7E3
350	F3F3	F4F3	F5F3	F6F3	F7F3
400	F3G3	F4G3	F5G3	F6G3	F7G3
500	F3H3	F4H3	F5H3	F6H3	F7H3
600	F3K3	F4K3	F5K3	F6K3	F7K3
700	F3M3	F4M3	F5M3	F6M3	F7M3
800	F3N3	F4N3	F5N3	F6N3	F7N3
1000	F3P3	F4P3	F5P3	F6P3	F7P3
1200	F3R3	F4R3	F5R3	F6R3	F7R3
1500	F3S3	F4S3	F5S3	F6S3	F7S3

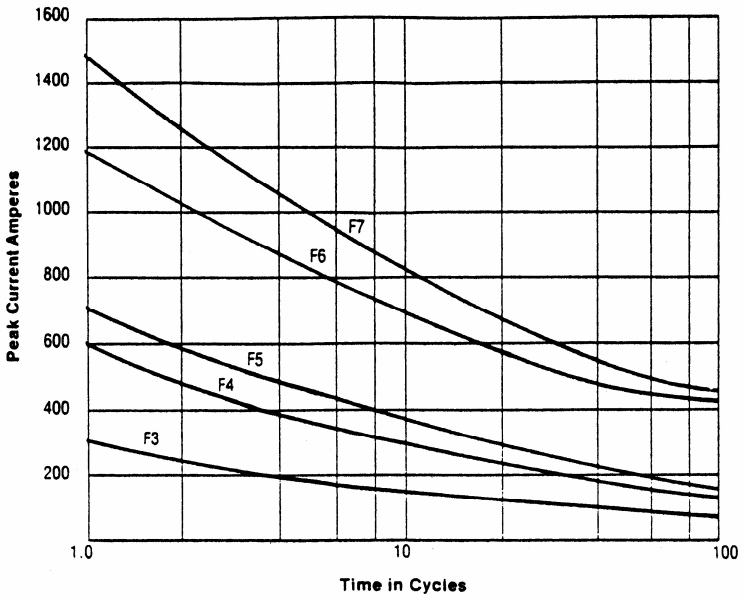
ELECTRICAL RATINGS

	F3	F4	F5	F6	F7
Maximum Forward Current Single Phase Half Wave					
Case Temperature ^{O}C	124	123	122	138	132
Io AMPS	30	37	45	70	85
Maximum Surge Current					
Single Cycle Amps	300	600	700	1200	1500
Maximum Forward Drop @ 25^{O}C Case					
Io Amps	90	90	90	200	200
Vf Volts	1.3	1.2	1.15	1.29	1.2
Maximum Reverse Current					
FCA @ 150^{O}C ma	1.0	2.0	2.0	2.0	2.0
Maximum I^2T (less than 8ms)					
$Amps^2$-Sec	350	1500	2100	6000	9300
Reverse Power for Bulk Avalanche (Joules)	0.6	0.6	0.6	0.6	0.6
Storage Temperature ^{O}C	-65 to 200	-65 to 200	-65 to 200	-65 to 200	-65 to 200
Operating Temperature ^{O}C	-65 to 190	-65 to 190	-65 to 190	-65 to 190	-65 to 190
Thermal Impedance Maximum					
(Junction to Case) ^{O}C/Watt Maximum	1.8	1.5	1.25	0.65	0.6
Jedec Style	DO5	DO5	DO5	DO5	DO5

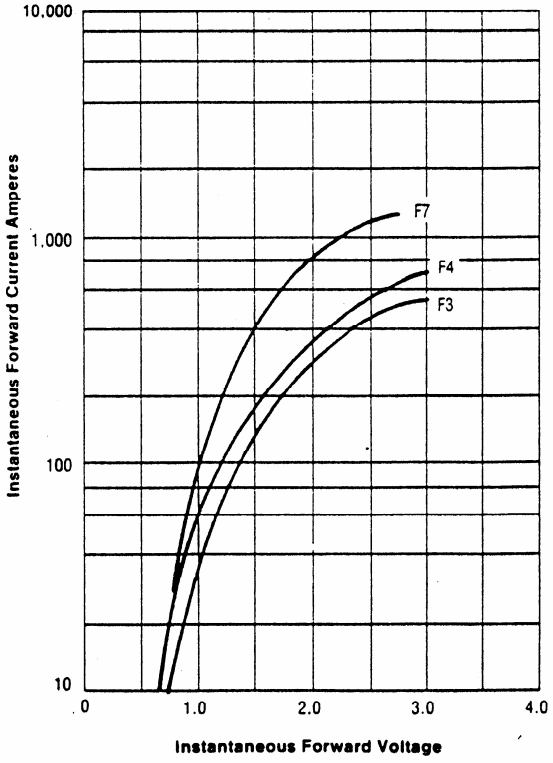
Typical Forward Characteristics At 25°C



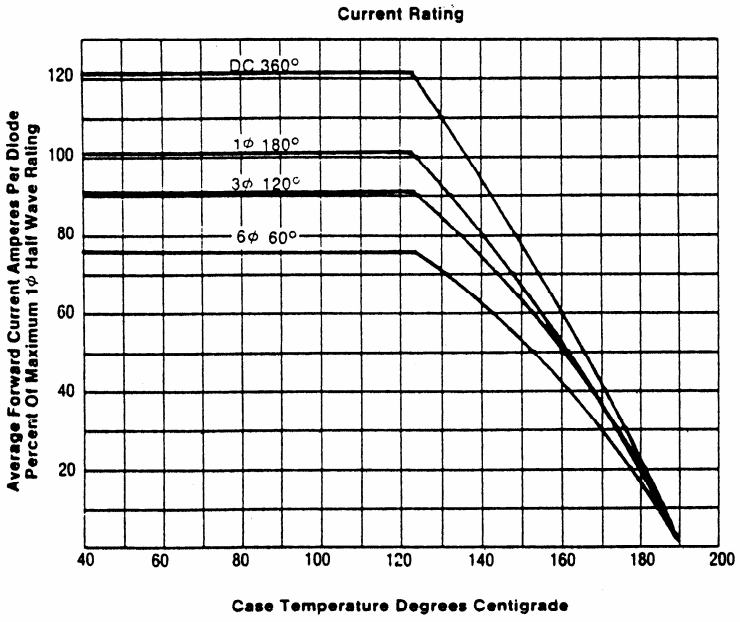
Surge Current at Rated Load



Typical Forward Characteristics At 190°C



Current Rating



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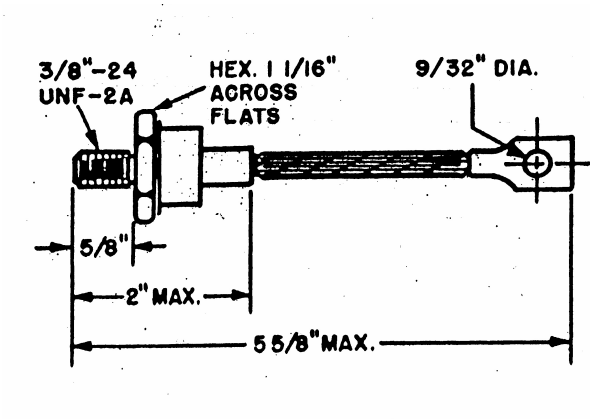
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Edal

SERIES G5, G6, G7

Silicon Power Rectifiers

Edal Series G power rectifiers are stud mounted DO-8 packages. Because the silicon junction is carefully fitted within a glass-to-metal hermetically sealed case, reliable operation is assured, even with extreme humidity and under other severe environmental conditions. The series G power rectifiers are completely corrosion resistant. A double diffused, passivated junction technique is utilized to provide stable uniform electrical characteristics. Inherent in their design is very low leakage currents and excellent surge handling capability. Standard, bulk avalanche and fast recovery types in voltage ratings from 50 to 1500 volts PIV are available. Series G power rectifiers are also available in reverse polarity offering extended application parameters. Edal Series G power rectifiers are ideal for a broad range of commercial and military uses including power supplies, ultrasonic systems, inverters, welders, emergency generators, battery chargers, DC motors, and motor controls.

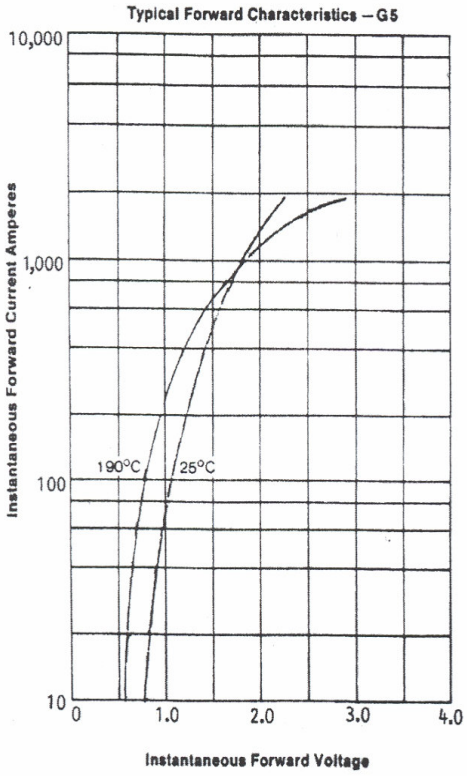


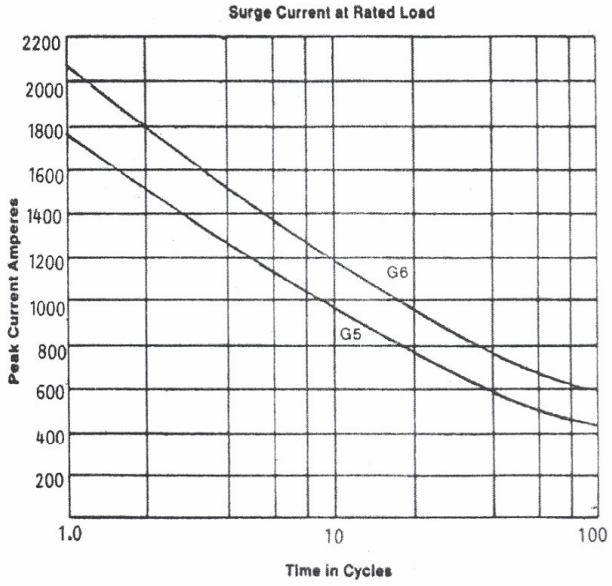
Specifications

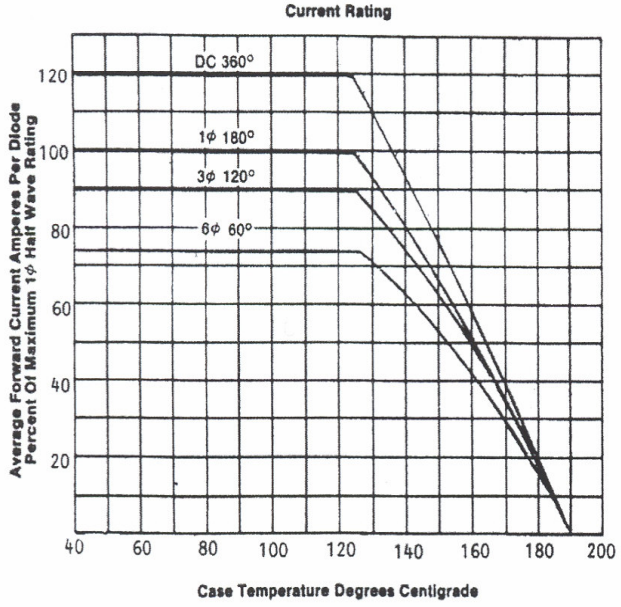
PIV VOLTS	125 AMPS	150 AMPS	200 AMPS
50	G5A3	G6A3	G7A3
100	G5B3	G6B3	G7B3
200	G5C3	G6C3	G7C3
250	G5D3	G6D3	G7D3
300	G5E3	G6E3	G7E3
350	G5F3	G6F3	G7F3
400	G5G3	G6G3	G7G3
500	G5H3	G6H3	G7H3
600	G5K3	G6K3	G7K3
700	G5M3	G6M3	G7M3
800	G5N3	G6N3	G7N3
1000	G5P3	G6P3	G793
1200	G5R3	G6R3	G7R3
1500	G5S3	G6S3	G7S3

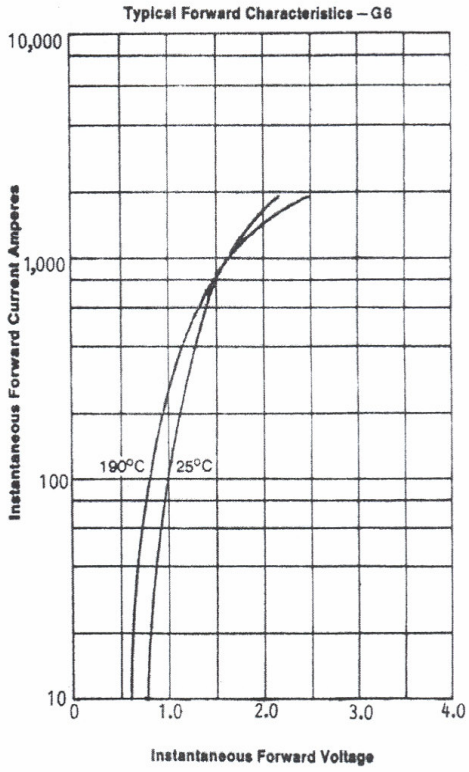
Electrical Ratings

	G5	G6	G7
Maximum forward current single Phase Half Wave			
Case Temperature ^{o} C	130	125	125
Io Amps	125	150	200
Maximum Surge Current			
Single Cycle Amps	1800	2100	3000
Maximum Forward Drop at 25 ^{o} C Case			
Io Amps	200	200	200
Vf Volts	1.2	1.1	1.05
Maximum Reverse Current			
FCA @ 150 C ma	5.0	5.0	5.0
Maximum I^{2} T (less than 8 ms)			
Amps ^{2} – Sec	13500	18200	23500
Reverse Power for Bulk Avalanche (Joules)	1.0	1.0	1.5
Storage Temperature ^{o} C	-65 to 200	-65 to 200	-65 to 200
Operating Temperature ^{o} C	-65 to 190	-65 to 190	-65 to 190
Thermal Impedance Maximum			
(Junction to Case) ^{o} C/Watt Maximum	.40	.35	.30
Jedec Style	DO8	DO8	DO8









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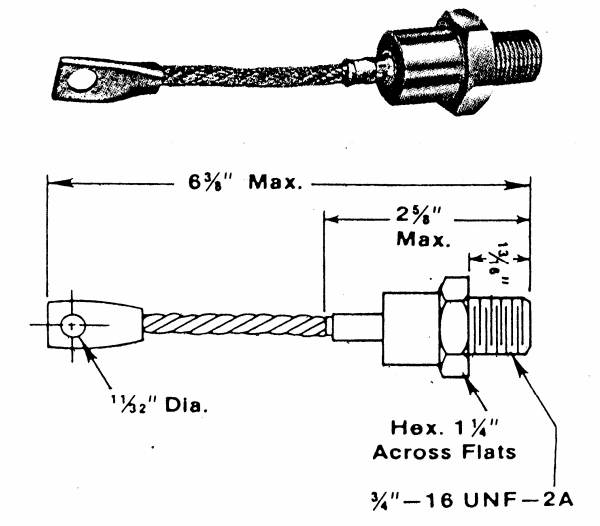
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Edal

SERIES J5, J6

Silicon Power Rectifiers

Edal Series J silicon power rectifiers are ideal for a broad range of commercial and military uses including power supplies, ultrasonic systems, inverters, welders, emergency generators, battery chargers, DC motors and motion controls These power rectifiers are stud mounted D09 packages. Because the silicon junction is carefully fitted with a glass-to-metal hermetically sealed case, reliable operations are assured even with extreme humidity and under other severe environmental conditions and they are completely corrosion resistant. Double diffused, passivated junction technique is utilized to assure stable uniform electrical characteristics. Inherent in their design is very low leakage currents and excellent surge handling capability. Series J rectifiers are available in standard, bulk avalanche and fast recovery types as well as in reverse polarity. Voltage ratings from 50 to 1500 volts PIV.

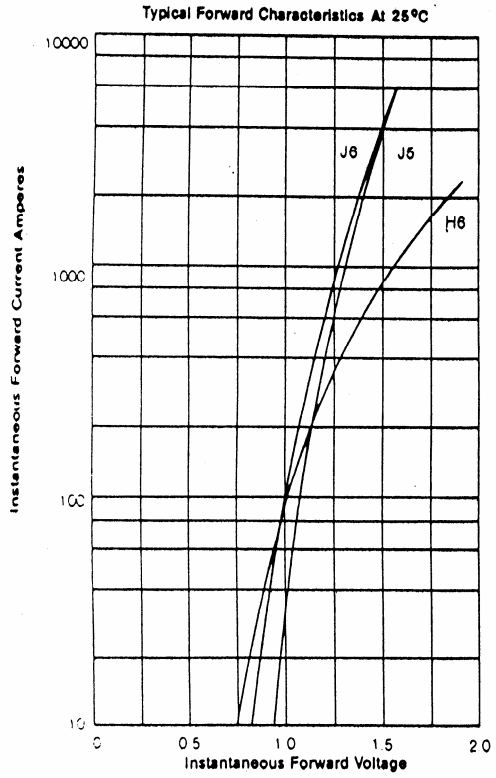


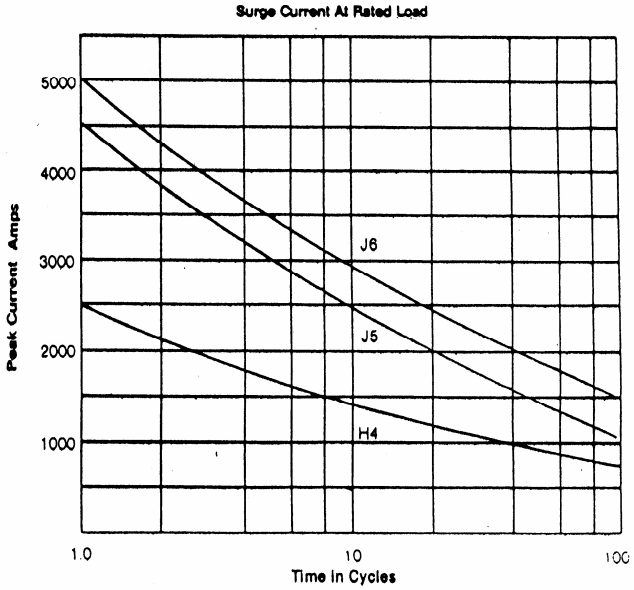
Specifications

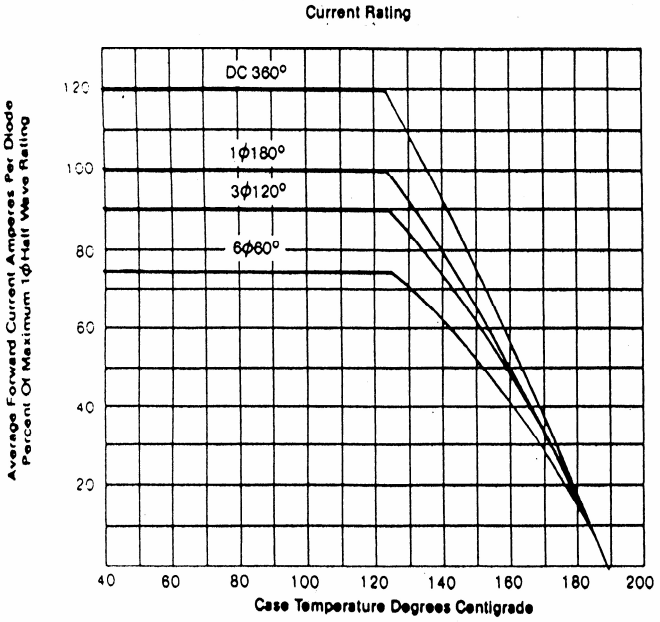
PIV VOLTS	250 AMPS	300 AMPS
50	J5A3	J6A3
100	J5B3	J6B3
200	J5C3	J6C3
250	J5D3	J6D3
300	J5E3	J6E3
350	J5F3	J6F3
400	J5G3	J6G3
500	J5H3	J6H3
600	J5K3	J6K3
700	J5M3	J6M3
800	J5N3	J6N3
1000	J5P3	J6P3
1200	J5R3	J6R3
1500	J5S3	J6S3

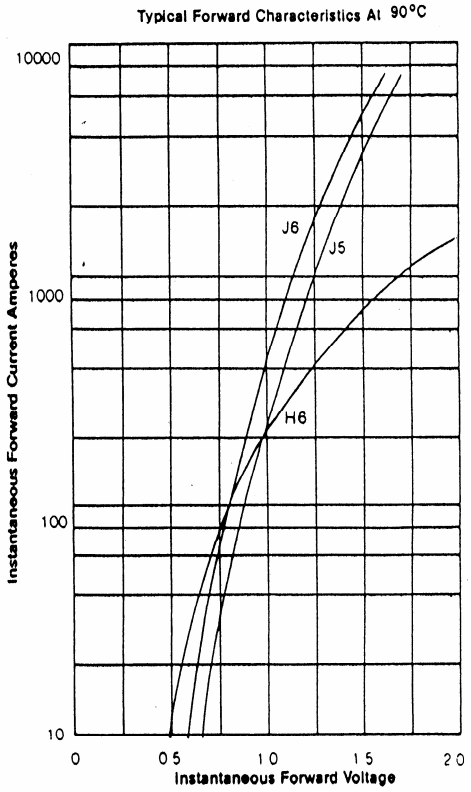
Electrical Ratings

	J5	J6
Maximum forward current single Phase Half Wave		
Case Temperature ^{o} C	122	131
Io Amps	250	300
Maximum Surge Current		
Single Cycle Amps	4500	5000
Maximum Forward Drop at 25 ^{o} C Case		
Io Amps	300	300
Vf Volts	1.2	1.1
Maximum Reverse Current FCA @ 150 ^{o} C	10	10
Maximum I^2 T (less than 8 ms)		
Amps ^{2} – Sec	84,000	104,000
Reverse Power for Bulk Avalanche (Joules)	2.0	2.0
Storage Temperature ^{o} C	-65 to 200	-65 to 200
Operating Temperature ^{o} C	-65 to 190	-65 to 190
Thermal Impedance Maximum		
(Junction to Case) ^{o} C/Watt Maximum	.22	.17
Jedec Style	DO 9	DO 9









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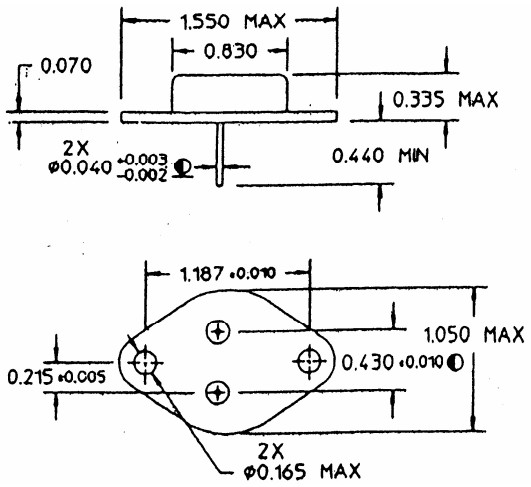
Edal

SERIES T

Silicon T03 Miniature Power Circuits

Edal's Miniature power design offers optional configurations in one standard package. A sharp reduction in space requirements, simplified purchasing, reduced inventory, fewer lead connections and faster assembly by eliminating the need of soldering many diodes to achieve equivalent circuitry are substantial advantages. Low unit cost and increased reliability are proven results of Edal multiple circuits, now available in half wave, and center tap circuits. Ratings for the circuits that are listed below point out the high temperature resistance, low leakage current and low forward voltage drop. Units utilize double diffused passivated junctions. Through Quality Control program results in high unit reliability. Available in Fast Recovery and/or Bulk Avalanche devices.

Electrical Ratings (Per Section)	
Maximum Output Current	
Case Temp 130 ^{o} C Io see Chart	
Maximum Single Cycle Surge Current	250 amps
Maximum Forward Voltage Drop:	
at Io 25 ^{o} C Case	1.5 volts
Maximum Reverse Current:	
at PIV	50 ua
Maximum I ^{2} t	250 amps^{2} sec



SERIES T PER SECTION SPECIFICATIONS

CURRENT		PIV			
CODE	AMPS	CODE	(VOLTS)	CODE	CIRCUIT
10	10	A	50	1	Half Wave
15	15	B	100	2	Center Tap, Case Pos.
20	20	C	200	3	Center Tap, Case Neg.
		D	300		
		E	400		
		F	500		
		G	600		
		H	700		
		K	800		
		M	1000		
		N	1200		

T 10 B 2

First code represents series, second current, third PIV, fourth the circuit. Series T10B2, for Example is a 10 amp 100 PIV Center Tap Case Positive.

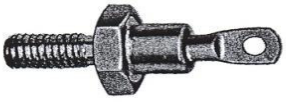
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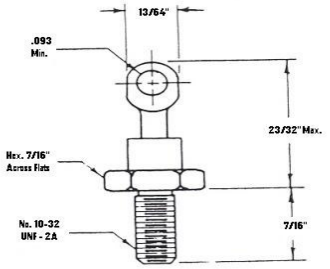
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SERIES SB100

Silicon Schottky Barrier Rectifiers





ELECTRICAL RATINGS

Peak Inverse Voltage	45 VOLTS
Io AMPS @ 95 ^{O}C Case	35 AMPS
Maximum Surge Current	
Single Cycle Amps	600 AMPS
Maximum Forward Drop @ 25^{O}C Case	
Io Amps	35 AMPS
Vf Volts	.6 VOLTS
Maximum Reverse Current	
@ 25^{O}C @ PRV	.3 m AMPS
Storage Temperature ^{O}C	-65 to 175
Operating Temperature ^{O}C	-65 to 150
Jedec Style	DO4

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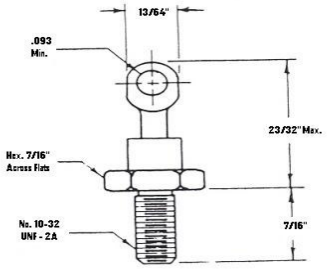
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SERIES SB101

Silicon Schottky Barrier Rectifiers





ELECTRICAL RATINGS

Peak Inverse Voltage	35 VOLTS
Io AMPS @ 95 ^{O}C Case	30 AMPS
Maximum Surge Current	
Single Cycle Amps	600 AMPS
Maximum Forward Drop @ 25^{O}C Case	
Io Amps	30 AMPS
Vf Volts	.6 VOLTS
Maximum Reverse Current	
@ 25^{O}C @ PRV	1 m AMPS
Storage Temperature ^{O}C	-65 to 175
Operating Temperature ^{O}C	-65 to 150
Jedec Style	DO4

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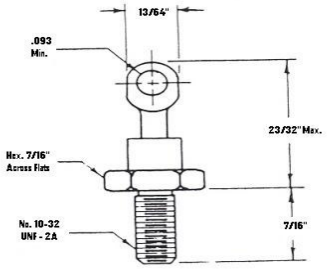
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SERIES SB102

Silicon Schottky Barrier Rectifiers





ELECTRICAL RATINGS

Peak Inverse Voltage	45 VOLTS
Io AMPS @ 95 ^{O}C Case	25 AMPS
Maximum Surge Current	
Single Cycle Amps	600 AMPS
Maximum Forward Drop @ 25^{O}C Case	
Io Amps	25 AMPS
Vf Volts	.4 VOLTS
Maximum Reverse Current	
@ 25^{O}C @ PRV	1 m AMPS
Storage Temperature ^{O}C	-65 to 175
Operating Temperature ^{O}C	-65 to 150
Jedec Style	DO4

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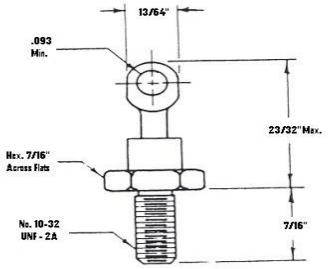
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SERIES SB103

Silicon Schottky Barrier Rectifiers





ELECTRICAL RATINGS

Peak Inverse Voltage	40 VOLTS
Io AMPS @ 95 ^{O}C Case	25 AMPS
Maximum Surge Current	
Single Cycle Amps	600 AMPS
Maximum Forward Drop @ 25^{O}C Case	
Io Amps	25 AMPS
Vf Volts	.82 VOLTS
Maximum Reverse Current	
@ 25^{O}C @ PRV	1 m AMPS
Storage Temperature ^{O}C	-65 to 175
Operating Temperature ^{O}C	-65 to 150
Jedec Style	DO4

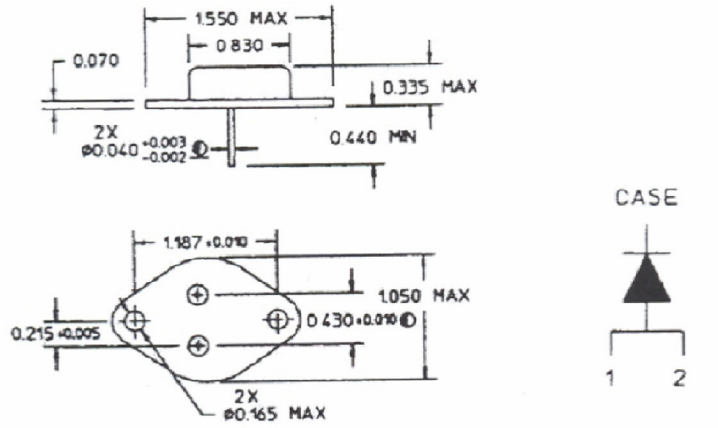
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SERIES SB105

Silicon Schottky Barrier Rectifiers



ELECTRICAL RATINGS

Peak Inverse Voltage	45 VOLTS
Io AMPS @ 120 ^{O}C Case	30 AMPS
Maximum Surge Current	
Single Cycle Amps	600 AMPS
Maximum Forward Drop @ 25^{O}C Case	
Io Amps	30 AMPS
Vf Volts	.47 VOLTS
Maximum Reverse Current	
@ 25^{O}C @ PRV	1 m AMPS
Storage Temperature ^{O}C	-65 to 175
Operating Temperature ^{O}C	-65 to 150
Jedec Style	TO-3

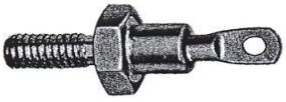
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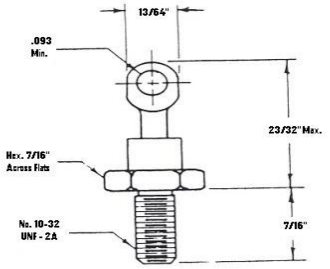
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SERIES SB106

Silicon Schottky Barrier Rectifiers





ELECTRICAL RATINGS

Peak Inverse Voltage	45 VOLTS
Io AMPS @ 95 ^{O}C Case	25 AMPS
Maximum Surge Current	
Single Cycle Amps	600 AMPS
Maximum Forward Drop @ 25^{O}C Case	
Io Amps	25 AMPS
Vf Volts	.58 VOLTS
Maximum Reverse Current	
@ 25^{O}C @ PRV	2 mA
Storage Temperature ^{O}C	-55 to 175
Operating Temperature ^{O}C	-55 to 150
Jedec Style	DO4

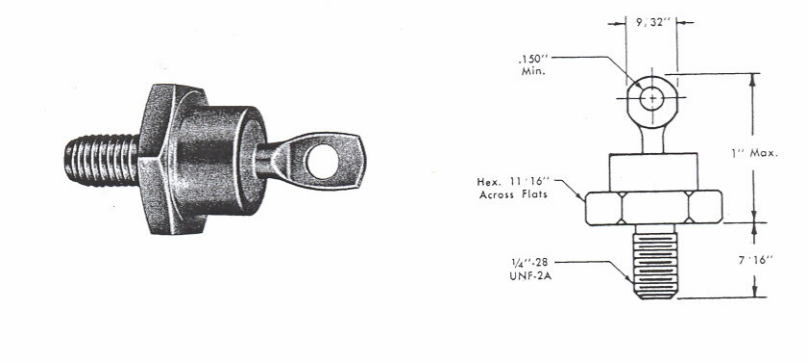
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SERIES SB107

Silicon Schottky Barrier Rectifiers



ELECTRICAL RATINGS

Peak Inverse Voltage	40 VOLTS
Io AMPS @ 95 ^{O}C Case	75 AMPS
Maximum Surge Current	
Single Cycle Amps	1180 AMPS
Maximum Forward Drop @ 25^{O}C Case	
Io Amps	75 AMPS
Vf Volts	.71 VOLTS
Maximum Reverse Current	
@ 25^{O}C @ PRV	5 m AMPS
Storage Temperature ^{O}C	-65 to 175
Operating Temperature ^{O}C	-65 to 150
Jedec Style	DO5

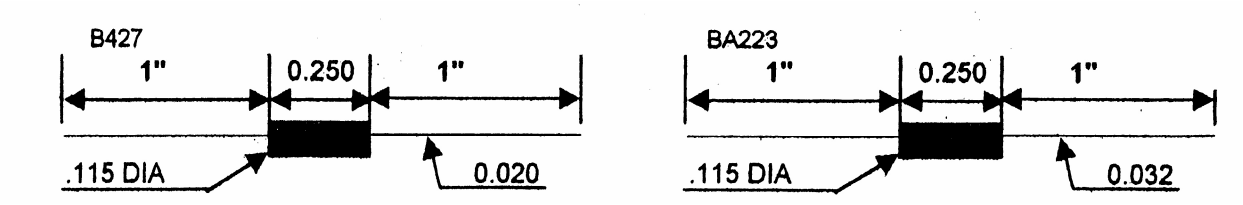
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HIGH VOLTAGE DEVICES

Sub-Miniature High Voltage Rectifiers

Compact tubular construction and flexible leads facilitate circuit mounting, provide excellent thermal conductivity and eliminate sharp edges to reduce corona common to large, rectangular packages. Diodes are manufactured using double junctions that are bonded and selected for uniform electrical characteristics. Series B427 and the BA223, units all meet moisture resistance requirements of MIL Standard 202A, Method 106. Series B427 and BA223 are available in voltage ratings of 1000 to 7000 volts PIV. The B427 is available in a current range of 50ma to 200ma and the BA223 in a current range from 150ma to 1000ma. Both are available in standard and fast recovery series. All series are available with special ratings on request. Other sizes and ratings are available.



Specifications B427, BA223

Standard series

PIV Volts	PART NO.	Io ma @ 55° C	Vf Io @ 25° C	PART NO.	Io ma @ 55° C	Vf Io @ 25° C
1000	B427-10	200	5	BA223-10	1000	5
1500	B427-15	200	5	BA223-15	1000	5
2000	B427-20	200	5	BA223-20	700	5
2500	B427-25	200	5	BA223-25	700	5
3000	B427-30	200	5	BA223-30	500	5
3500	B427-35	100	7	BA223-35	500	7
4000	B427-40	100	7	BA223-40	400	7
4500	B427-45	100	7	BA223-45	400	7
5000	B427-50	100	7	BA223-50	300	7
5500	B427-55	50	10	BA223-55	300	10
6000	B427-60	50	10	BA223-60	200	10
6500	B427-65	50	10	BA223-65	200	10
7000	B427-70	50	10	BA223-70	150	10

Fast Recovery series

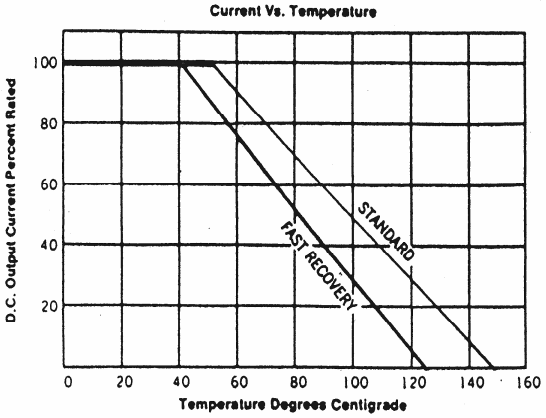
PIV	PART	Io ma @	Vf	PART	Io ma @	Vf
1000	BR427-10	100	7	BAR223-10	500	7
1500	BR427-15	100	7	BAR223-15	500	7
2000	BR427-20	100	7	BAR-223-20	350	7
2500	BR427-25	100	7	BAR-223-25	350	7
3000	BR427-30	100	7	BAR223-30	250	7
3500	BR427-35	50	10	BAR223-35	250	10
4000	BR427-40	50	10	BAR223-40	200	10
4500	BR427-45	50	10	BAR223-45	200	10
5000	BR427-50	50	10	BAR223-50	150	10
5500	BR427-55	25	15	BAR223-55	150	15
6000	BR427-60	25	15	BAR223-60	100	15
6500	BR427-65	25	15	BAR223-65	100	15
7000	BR427-70	25	15	BAR223-70	75	15

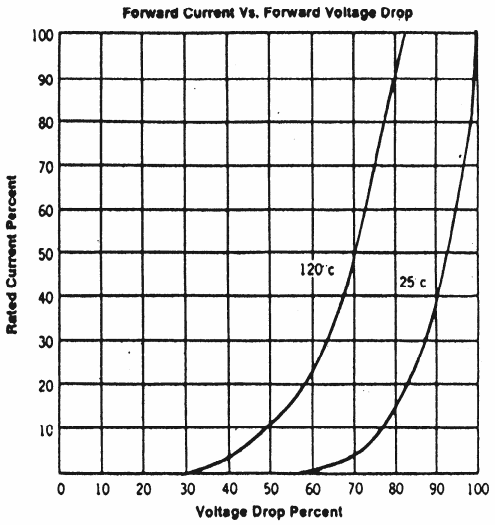
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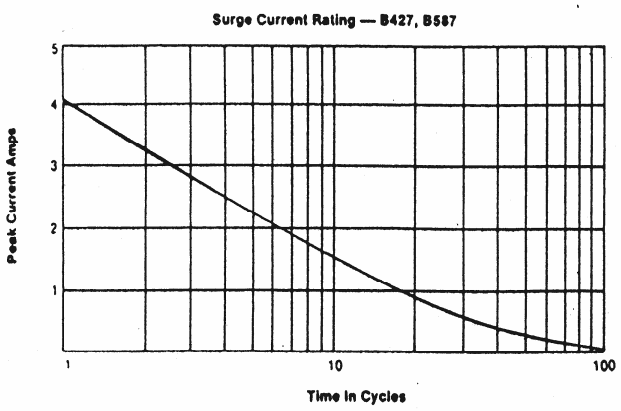
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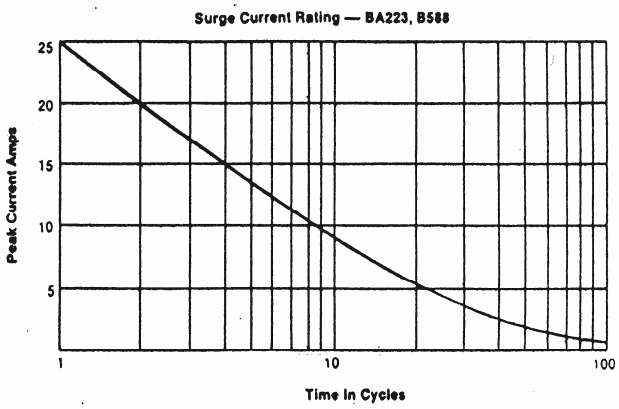
Electrical Ratings

	B427	BR427	BA223	BAR223
Maximum Allowable One Cycle Surge Current: (60 Hz single Phase non-recurrent, at rated PIV and no load)	4 amps	4 amps	25 amps	25 amps
Maximum Reverse Current 25°C @ PIV 100°C	1 ua 40 ua	2 ua 100 ua	5 ua 200 ua	10 ua 500 ua
Recovery Time I_f 2ma and I_r 4 ma recovery to 1 ma	———	250 ns	———	———
Recovery Time I_f 20 ma and I_r 40 ma recovery to 10 ma	———	———	———	200 ns







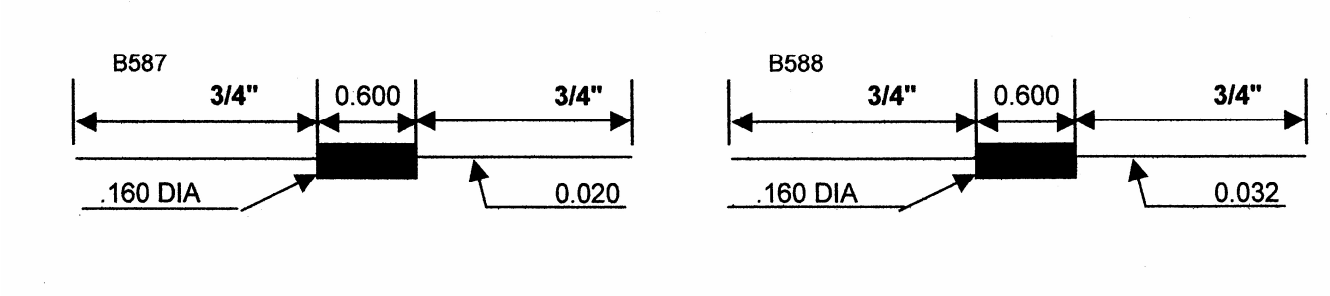


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Sub-Miniature High Voltage Rectifiers

Compact tubular construction and flexible leads facilitate circuit mounting, provide excellent thermal conductivity and eliminate sharp edges to reduce corona common to large, rectangular packages. Diodes are manufactured using double junctions that are bonded and selected for uniform electrical characteristics. Series B587 and the B588, units all meet moisture resistance requirements of MIL Standard 202A, Method 106. Series B587 and B588 are available in voltage ratings of 1000 to 20000 volts PIV. The B587 has a current range of 50ma to 200ma and the B588 100ma to 1000ma. Both are available in standard and fast recovery series. All series are available with special ratings on request. Other sizes and ratings are available.



Specifications B587, B588

Standard series

PIV Volts	PART NO.	Io ma @ 55° C	Vf Io @ 25° C	PART NO.	Io ma @ 55° C	Vf Io @ 25° C
1000	B587-10	200	5	B588-10	1000	5
1500	B587-15	200	5	B588-15	1000	5
2000	B587-20	200	5	B588-20	700	5
2500	B587-25	200	5	B588-25	700	5
3000	B587-30	200	5	B588-30	500	5
3500	B587-35	100	7	B588-35	500	7
4000	B587-40	100	7	B588-40	400	7
4500	B587-45	100	7	B588-45	400	7
5000	B587-50	100	7	B588-50	300	7
5500	B587-55	50	10	B588-55	300	10
6000	B587-60	50	10	B588-60	200	10
6500	B587-65	50	10	B588-65	200	10
7000	B587-70	50	10	B588-72	150	10
8000	B587-80	50	12	B588-80	125	12
8500	B587-85	50	12	B588-85	125	12
9000	B587-90	50	12	B588-90	125	12
9500	B587-95	50	12	B588-95	125	12
10000	B587-100	50	15	B588-100	100	15
11000	B587-110	50	15	B588-110	100	15
12000	B587-120	50	15	B588-120	100	15
13000	B587-130	50	15	B588-130	100	15
14000	B587-140	50	15	B588-140	100	15
15000	B587-150	50	25	B588-150	100	25
16000	B587-160	50	25	B588-160	100	25
17000	B587-170	50	25	B588-170	100	25
18000	B587-180	50	25	B588-180	100	25
19000	B587-190	50	25	B588-190	100	25
20000	B587-200	50	30	B588-200	100	30

Fast Recovery series

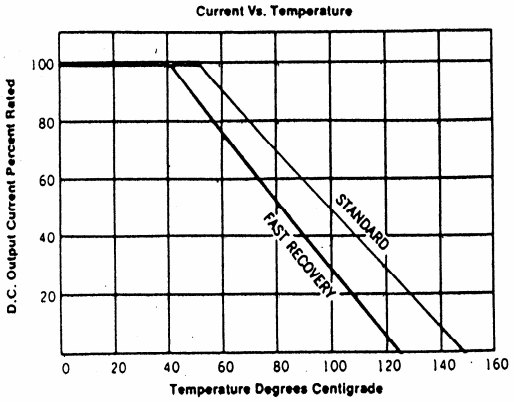
PIV Volts	PART NO.	Io ma @ 40° C	Vf Io @ 25° C	PART NO.	Io ma @ 55° C	Vf Io @ 25° C
1000	BR587-10	100	7	BR588-10	500	7
1500	BR587-15	100	7	BR588-15	500	7
2000	BR587-20	100	7	BR588-20	350	7
2500	BR587-25	100	7	BR588-25	350	7
3000	BR587-30	100	7	BR588-30	250	7
3500	BR587-35	50	10	BR588-35	250	10
4000	BR587-40	50	10	BR588-40	200	10
4500	BR587-45	50	10	BR588-45	200	10
5000	BR587-50	50	10	BR588-50	150	10
5500	BR587-55	25	15	BR588-55	150	15
6000	BR587-60	25	15	BR588-60	100	15
6500	BR587-65	25	15	BR588-65	100	15
7000	BR587-70	25	15	BR588-70	75	15
8000	BR587-80	25	18	BR588-80	65	18
8500	BR587-85	25	18	BR588-85	65	18
9000	BR587-90	25	18	BR588-90	60	18
9500	BR587-95	25	18	BR588-95	55	18
10000	BR587-100	25	23	BR588-100	50	23
11000	BR587-110	25	23	BR588-110	50	23
12000	BR587-120	25	23	BR588-120	50	23
13000	BR587-130	25	23	BR588-130	50	23
14000	BR587-140	25	23	BR588-140	50	23
15000	BR587-150	25	38	BR588-150	50	38
16000	BR587-160	25	38	BR588-160	50	38
17000	BR587-170	25	38	BR588-170	50	38
18000	BR587-180	25	38	BR588-180	50	38
19000	BR587-190	25	38	BR588-190	50	38
20000	BR587-200	25	45	BR588-200	50	45

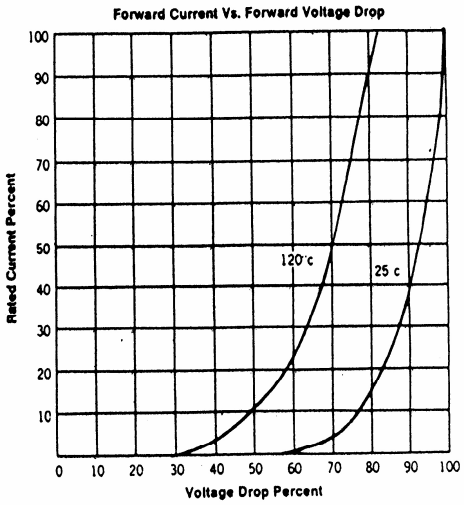
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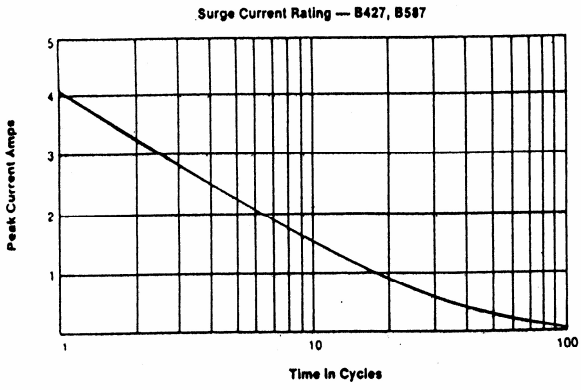
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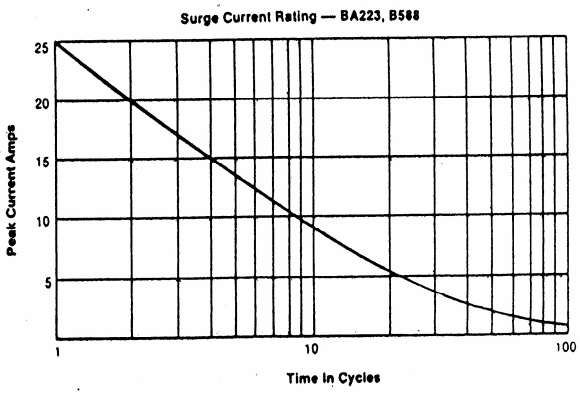
Electrical Ratings

	B587	BR587	B588	BR588
Maximum Allowable One Cycle Surge Current: (60 Hz single Phase non-recurrent, at rated PIV and no load)	4 amps	4 amps	25 amps	25 amps
Maximum Reverse Current 25^0C	1 ua	2 ua	5 ua	10 ua
@ PIV 100^0C	40 ua	100 ua	200 ua	500 ua
Recovery Time I_f 2ma and I_r 4 ma recovery to 1 ma	———	250 ns	———	———
Recovery Time I_f 20 ma and I_r 40 ma recovery to 10 ma	———	———	———	200 ns









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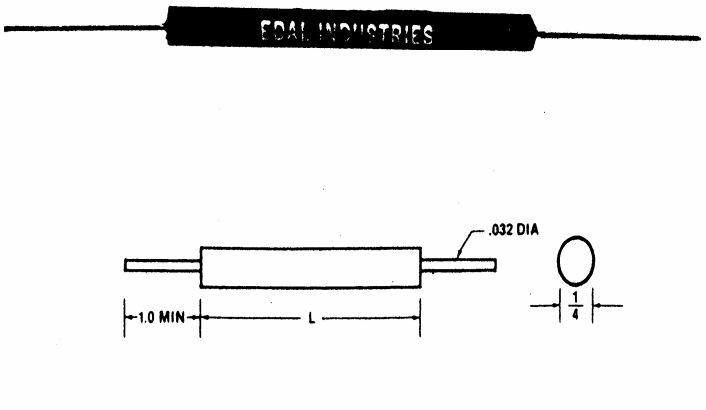
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SERIES B412

Miniature High Voltage Silicon Rectifiers

Smaller in size than other high voltage rectifiers, compact tubular construction and flexible leads facilitate circuit mounting and provide excellent thermal conductivity. These units are ideally suited for commercial and industrial applications including high voltage power supplies, electrostatic applications, cathode ray tubes, oscilloscopes, TV, display, X-ray and laser. Diodes used consist of double diffused junctions, bonded selected and pre-tested for uniform electrical characteristics. Compact, rugged, tubular construction eliminates sharp edges to reduce corona common to rectangular packages. Series B412 units meet moisture resistance requirements of MIL Standard 202A, Method 106. A varied operating range is available from 5,000 volts to 50,000 volts PIV, 5mA to 25mA and available in both standard and fast recovery series.



Electrical Ratings

Maximum Allowable One Cycle Surge Current (60 Hz single phase non-recurrent at rated PRV and no load)	4 amps
Maximum Reverse Current at PIV	
25 ^{O} C	1 ua*
100 ^{O} C	40 ua*

*fast recovery series 2 ua and 100 ua. Maximum reverse recovery time trr @ If =2 ma and Ir = 4 ma. Recovery to 1.0 ma – 250 nanoseconds

Standard Series

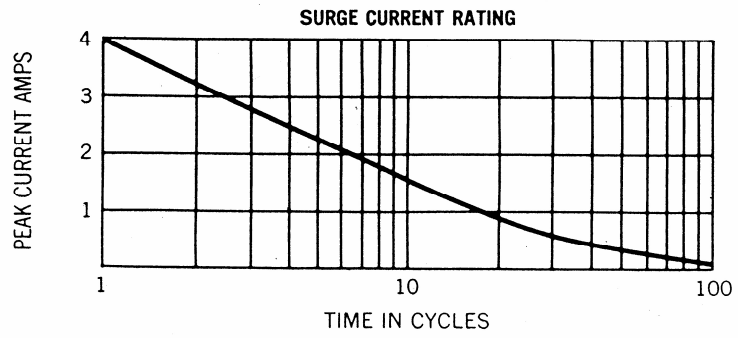
Fast Recovery Series

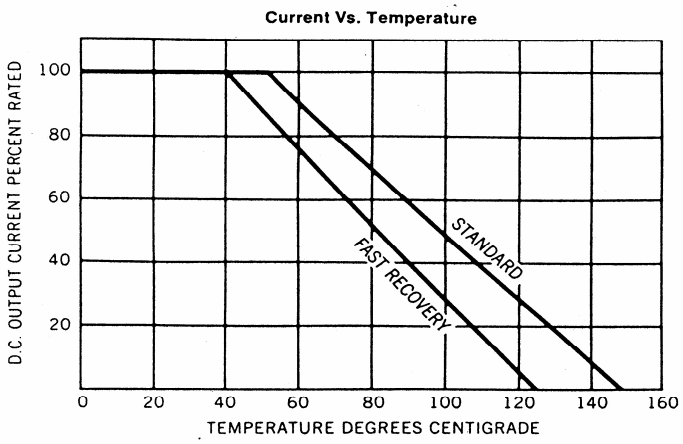
EDAL P/N* AVG. FWD CURRENT I_o AT 55^{O}C			PIV VOLTS	MAX. FWD VOLTAGE DROP AT 25^{O}C & I_o VOLTS	L IN.	EDAL P/N* AVG. FWD CURRENT I_o AT 55^{O}C			PIV VOLTS	MAX. FWD VOLTAGE DROP AT 25^{O}C & I_o VOLTS	L IN.
5 ma	10 ma	25ma				5 ma	10 ma	25 ma			
B412-5-5	B412-5-10	B412-5-25	5000	12	1.0	BR412-5-5	BR412-5-10	BR412-5-25	5000	15	1.0
B412-7-5	B412-7-10	B412-7-25	7000	12	1.0	BR412-7-5	BR412-7-10	BR412-7-25	7000	15	1.0
B412-10-5	B412-10-10	B412-10-25	10000	18	1.0	BR412-10-5	BR412-10-10	BR412-10-25	10000	30	1.0
B412-12-5	B412-12-10	B412-12-25	12000	18	1.0	BR412-12-5	BR412-12-10	BR412-12-25	12000	30	1.0
B412-15-5	B412-15-10	B412-15-25	15000	35	2.0	BR412-15-5	BR412-15-10	BR412-15-25	15000	60	2.0
B412-20-5	B412-20-10	B412-20-25	20000	35	2.0	BR412-20-5	BR412-20-10	BR412-20-25	20000	60	2.0
B412-25-5	B412-25-10	B412-25-25	25000	35	2.0	BR412-25-5	BR412-25-10	BR412-25-25	25000	60	2.0
B412-30-5	B412-30-10	B412-30-25	30000	50	3.0	BR412-30-5	BR412-30-10	BR412-30-25	30000	90	3.0
B412-40-5	B412-40-10	B412-40-25	40000	50	3.0	BR412-40-5	BR412-40-10	BR412-40-25	40000	90	3.0
B412-50-5	B412-50-10	B412-50-25	50000	70	5.0	BR412-50-5	BR412-50-10	BR412-50-25	50000	120	5.0

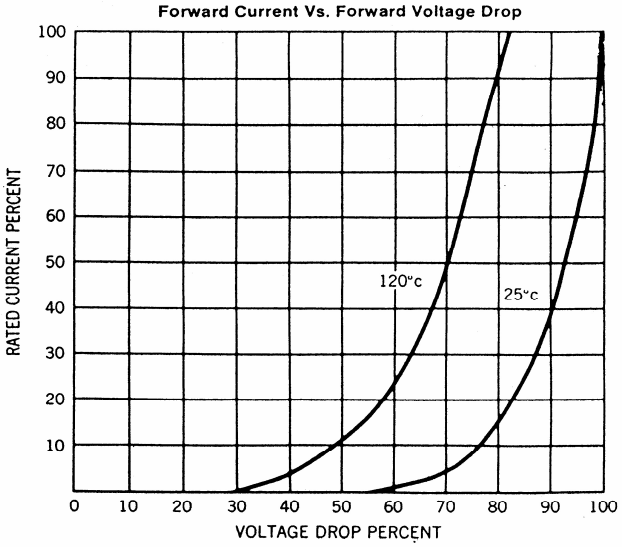
* Standard product lines are also available in 50 ma and 100 ma ratings. Other values are available upon request.

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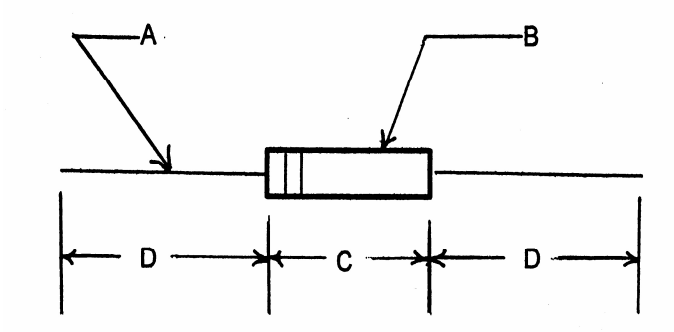
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SERIES B757

SUB-MINIATURE SILICON HIGH VOLTAGE RECTIFIER

INCHES

DIM.	MIN.	MAX.
A	.019	.022
B	.120	.125
C	.395	.405
D	.875	



PART NUMBER	PIV VOLTS	I_o ma 40° C	V_f I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT
B757-50	5000	50	10	1 uA	25 AMPS
B757-60	6000	25	15	1 uA	25 AMPS
B757-70	7000	25	15	1 uA	25 AMPS
B757-80	8000	25	18	1 uA	25 AMPS
B757-90	9000	25	18	1 uA	25 AMPS
B757-100	10000	25	23	1 uA	25 AMPS
B757-110	11000	25	23	1 uA	25 AMPS
B757-120	12000	25	23	1 uA	25 AMPS
B757-130	13000	25	23	1 uA	25 AMPS
B757-140	14000	25	23	1 uA	25 AMPS
B757-150	15000	25	38	1 uA	25 AMPS
B757-160	16000	25	38	1 uA	25 AMPS
B757-180	18000	25	38	1 uA	25 AMPS
B757-200	20000	25	45	1 uA	25 AMPS

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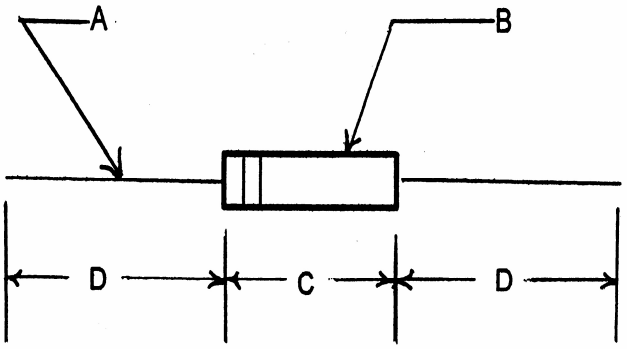
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SERIES BR757

SUB-MINIATURE SILICON HIGH VOLTAGE FAST RECOVERY RECTIFIER

INCHES

DIM.	MIN.	MAX.
A	.019	.022
B	.120	.125
C	.395	.405
D	.875	



PART NUMBER	PIV VOLTS	I_o ma 40° C	V_f I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT
BR757-50	5000	50	10	2 uA	25 AMPS
BR757-60	6000	25	12	2 uA	25 AMPS
BR757-70	7000	25	15	2 uA	25 AMPS
BR757-80	8000	25	18	2 uA	25 AMPS
BR757-100	10000	25	18	2 uA	25 AMPS
BR757-120	12000	25	23	2 uA	25 AMPS
BR757-150	15000	25	38	2 uA	25 AMPS
BR757-200	20000	25	45	2 uA	25 AMPS

RECOVERY TIME: Io = 2mA to 4mA to 1 mA – 250 n SEC.

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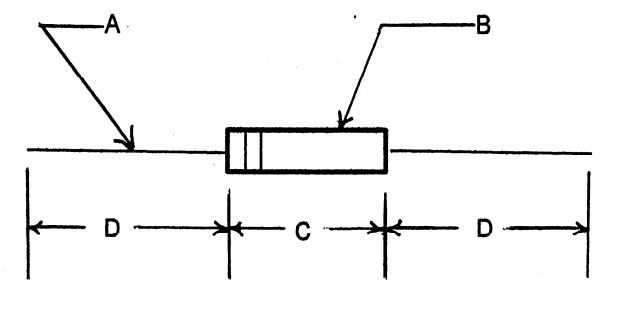
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SERIES BS757

SUB-MINIATURE SILICON HIGH VOLTAGE FAST RECOVERY RECTIFIER

INCHES

DIM.	MIN.	MAX.
A	.019	.022
B	.120	.125
C	.395	.405
D	.875	



PART NUMBER	PIV VOLTS	I_o ma 40º C	V_f I_o @ 25º C	I_r @ PIV @ 25º C	MAX SINGLE CYCLE SURGE CURRENT
BS757-10	1000	100	7	2 uA	25 AMPS
BS757-20	2000	100	7	2 uA	25 AMPS
BS757-30	3000	100	7	2 uA	25 AMPS
BS757-40	4000	50	10	2 uA	25 AMPS
BS757-50	5000	50	10	2 uA	25 AMPS
BS757-60	6000	25	12	2 uA	25 AMPS
BS757-70	7000	25	15	2 uA	25 AMPS
BS757-80	8000	25	18	2 uA	25 AMPS
BS757-100	10000	25	18	2 uA	25 AMPS
BS757-120	12000	25	23	2 uA	25 AMPS
BS757-150	15000	25	38	2 uA	25 AMPS
BS757-200	20000	25	45	2 uA	25 AMPS

RECOVERY TIME: Io = 2mA to 4mA to 1 mA – 150 n SEC.

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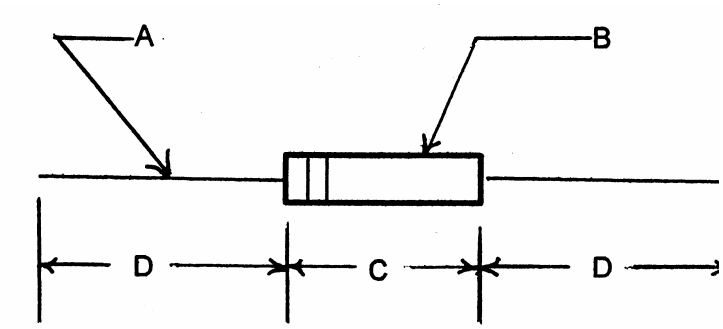
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SERIES BT757

SUB-MINIATURE SILICON HIGH VOLTAGE FAST RECOVERY RECTIFIER

INCHES

DIM.	MIN.	MAX.
A	.019	.022
B	.120	.125
C	.395	.405
D	.875	



PART NUMBER	PIV VOLTS	I_o ma 40° C	V_f I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT
BT757-10	1000	100	7	2 uA	25 AMPS
BT757-20	2000	100	7	2 uA	25 AMPS
BT757-30	3000	100	7	2 uA	25 AMPS
BT757-40	4000	50	10	2 uA	25 AMPS
BT757-50	5000	50	10	2 uA	25 AMPS
BT757-60	6000	25	15	2 uA	25 AMPS
BT757-70	7000	25	15	2 uA	25 AMPS
BT757-80	8000	25	18	2 uA	25 AMPS
BT757-100	10000	25	23	2 uA	25 AMPS
BT757-120	12000	25	23	2 uA	25 AMPS
BT757-150	15000	25	38	2 uA	25 AMPS
BT757-180	18000	25	42	2 uA	25 AMPS
BT757-200	20000	25	45	2 uA	25 AMPS

RECOVERY TIME: Io = 2mA to 4mA to 1 mA – 100 n SEC.

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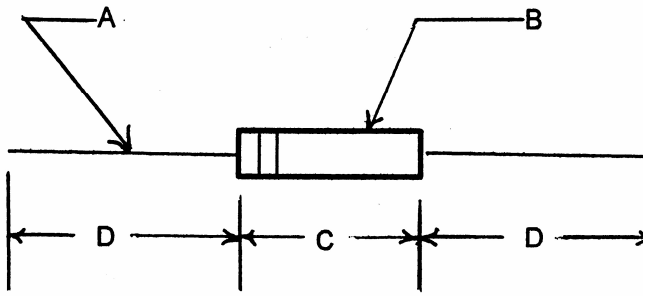
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SERIES BU757

SUB- MINIATURE SILICON HIGH VOLTAGE ULTRA FAST RECOVERY RECTIFIER

INCHES

DIM.	MIN.	MAX.
A	.019	.022
B	.120	.125
C	.395	.405
D	.875	



PART NUMBER	PIV VOLTS	I_o ma 40º C	V_f I_o @ 25º C	I_r @ PIV @ 25º C	MAX SINGLE CYCLE SURGE CURRENT
BU757-50	5000	50	16	2 uA	25 AMPS
BU757-60	6000	50	16	2 uA	25 AMPS
BU757-80	8000	25	20	2 uA	25 AMPS
BU757-100	10000	10	30	2 uA	25 AMPS
BU757-120	12000	10	30	2 uA	25 AMPS
BU757-150	15000	8	48	2 uA	25 AMPS
BU757-180	18000	8	48	2 Ua	25 AMPS
BU757-200	20000	8	48	2 uA	25 AMPS

RECOVERY TIME: Io = 2mA to 4mA to 1 mA – 60 n SEC. MAX.

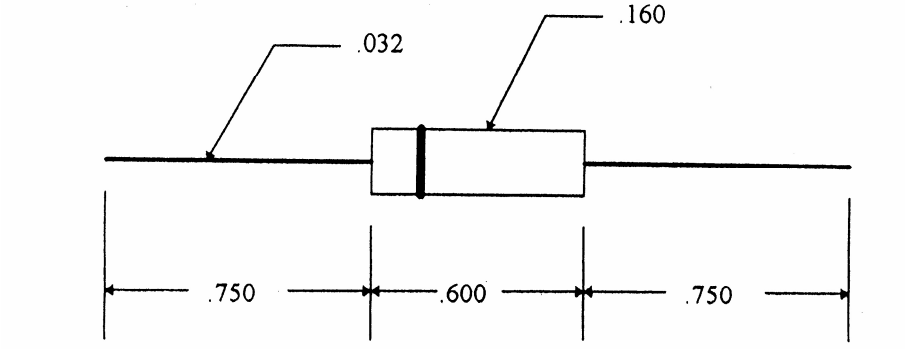
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SERIES BS588

SUB-MINIATURE SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o mA @ 40° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT	T_{rr}
BS588-10	1000	500	7	1 uA	25 AMPS	150 nSec
BS588-20	2000	350	7	1 uA	25 AMPS	150 nSec
BS588-30	3000	250	7	1 uA	25 AMPS	150 nSec
BS588-40	4000	200	10	1 uA	25 AMPS	150 nSec
BS588-50	5000	150	10	1 uA	25 AMPS	150 nSec
BS588-60	6000	100	15	1 uA	25 AMPS	150 nSec
BS588-70	7000	75	15	1 uA	25 AMPS	150 nSec
BS588-80	8000	60	18	1 uA	25 AMPS	150 nSec
BS588-90	9000	60	18	1 uA	25 AMPS	150 nSec
BS588-100	10000	50	23	1 uA	25 AMPS	150 nSec
BS588-110	11000	50	23	1 uA	25 AMPS	150 nSec
BS588-120	12000	50	23	1 uA	25 AMPS	150 nSec
BS588-130	13000	50	23	1 uA	25 AMPS	150 nSec
BS588-140	14000	50	23	1 uA	25 AMPS	150 nSec
BS588-150	15000	50	38	1 uA	25 AMPS	150 nSec
BS588-160	16000	50	38	1 uA	25 AMPS	150 nSec
BS588-170	17000	50	38	1 uA	25 AMPS	150 nSec
BS588-180	18000	50	38	1 uA	25 AMPS	150 nSec
BS588-190	19000	50	38	1 uA	25 AMPS	150 nSec
BS588-200	20000	50	45	1 uA	25 AMPS	150 nSec

RECOVERY TIME: .5 Amp forward to 1 Amp Reverse, Recover to .25 Amp
SUFFIX "A" REPRESENTS AVALANCHE CHARACTERISTICS EX: BS588-150A

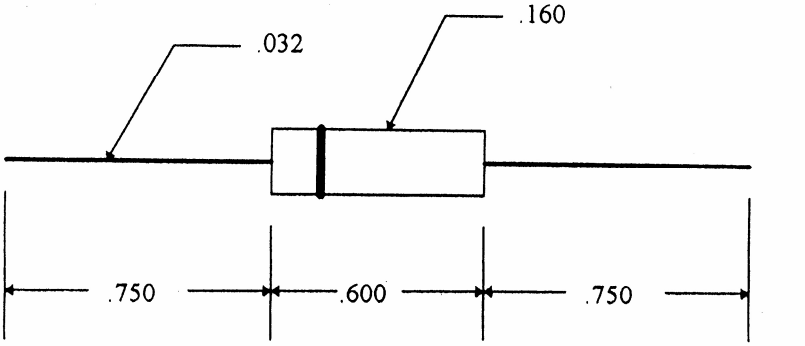
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SERIES BT588

SUB-MINIATURE SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o mA @ 40° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT	T_{rr}
BT588-10	1000	500	7	1 uA	25 AMPS	100 nSec
BT588-20	2000	350	7	1 uA	25 AMPS	100 nSec
BT588-30	3000	250	7	1 uA	25 AMPS	100 nSec
BT588-40	4000	200	10	1 uA	25 AMPS	100 nSec
BT588-50	5000	150	10	1 uA	25 AMPS	100 nSec
BT588-60	6000	100	15	1 uA	25 AMPS	100 nSec
BT588-70	7000	75	15	1 uA	25 AMPS	100 nSec
BT588-80	8000	60	18	1 uA	25 AMPS	100 nSec
BT588-90	9000	60	18	1 uA	25 AMPS	100 nSec
BT588-100	10000	50	23	1 uA	25 AMPS	100 nSec
BT588-110	11000	50	23	1 uA	25 AMPS	100 nSec
BT588-120	12000	50	23	1 uA	25 AMPS	100 nSec
BT588-130	13000	50	23	1 uA	25 AMPS	100 nSec
BT588-140	14000	50	23	1 uA	25 AMPS	100 nSec
BT588-150	15000	50	38	1 uA	25 AMPS	100 nSec
BT588-160	16000	50	38	1 uA	25 AMPS	100 nSec
BT588-170	17000	50	38	1 uA	25 AMPS	100 nSec
BT588-180	18000	50	38	1 uA	25 AMPS	100 nSec
BT588-190	19000	50	38	1 uA	25 AMPS	100 nSec
BT588-200	20000	50	45	1 uA	25 AMPS	100 nSec

RECOVERY TIME: .5 Amp forward to 1 Amp Reverse, Recover to .25 Amp
SUFFIX "A" REPRESENTS AVALANCHE CHARACTERISTICS EX: BT588-150A

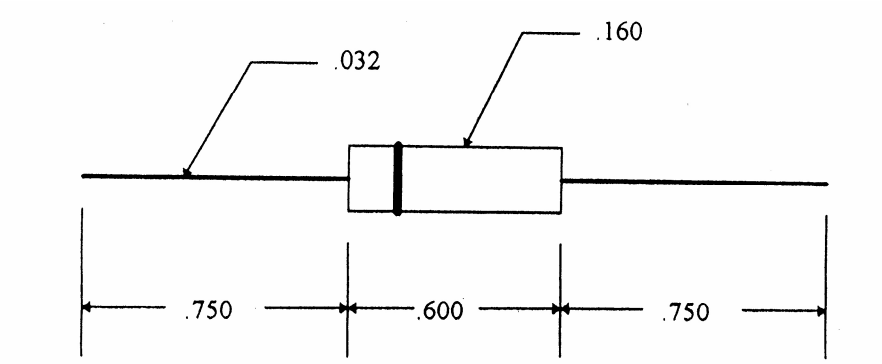
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SERIES B780

SUB-MINIATURE SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o ma @ 40° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT
B780-50	5000	600	7	1 uA	25 AMPS
B780-60	6000	400	10	1 uA	25 AMPS
B780-70	7000	300	10	1 uA	25 AMPS
B780-80	8000	250	12	1 uA	25 AMPS
B780-100	10000	200	15	1 uA	25 AMPS
B780-120	12000	200	15	1 uA	25 AMPS
B780-150	15000	150	25	1 uA	25 AMPS
B780-200	20000	150	30	1 uA	25 AMPS

SUFFIX “A” REPRESENTS AVALANCHE CHARACTERISTICS
EX: B780-150A

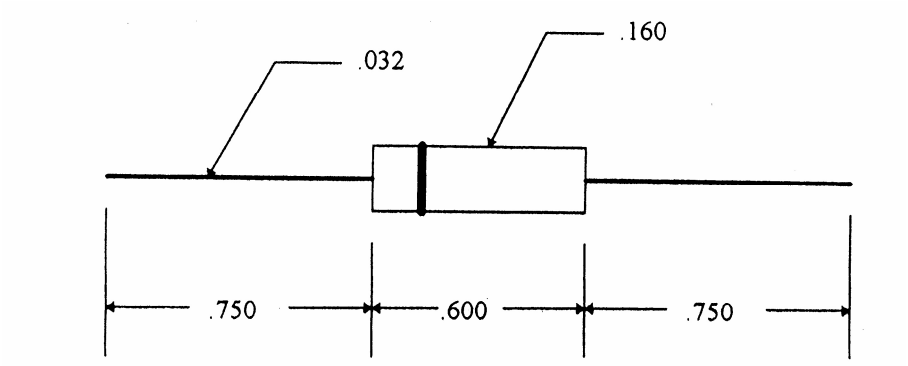
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SERIES BS780

SUB-MINIATURE SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o AMPS @ 40° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT	T_{rr}
BS780-50	5000	.45	10	1 uA	25 AMPS	150 nSec
BS780-60	6000	.30	15	1 uA	25 AMPS	150 nSec
BS780-70	7000	.22	18	1 uA	25 AMPS	150 nSec
BS780-80	8000	.20	18	1 uA	25 AMPS	150 nSec
BS780-90	9000	.18	18	1 uA	25 AMPS	150 nSec
BS780-100	10000	.15	23	1 uA	25 AMPS	150 nSec
BS780-110	11000	.15	23	1 uA	25 AMPS	150 nSec
BS780-120	12000	.15	23	1 uA	25 AMPS	150 nSec
BS780-130	13000	.15	23	1 uA	25 AMPS	150 nSec
BS780-140	14000	.15	23	1 uA	25 AMPS	150 nSec
BS780-150	15000	.10	38	1 uA	25 AMPS	150 nSec
BS780-160	16000	.10	38	1 uA	25 AMPS	150 nSec
BS780-170	17000	.10	38	1 uA	25 AMPS	150 nSec
BS780-180	18000	.10	38	1 uA	25 AMPS	150 nSec
BS780-200	20000	.075	45	1 uA	25 AMPS	150 nSec

RECOVERY TIME: If = 20 mA, iR = 40 mA RECOVER TO 10 mA
SUFFIX “A” REPRESENTS AVALANCHE CHARACTERISTICS EX: BS780-150A

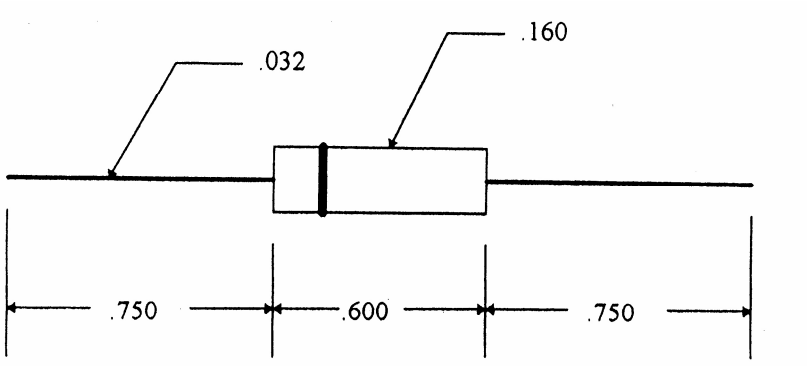
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SUB-MINIATURE SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o mA @ 40° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT	T_{rr}
BT780-50	5000	300	10	1 uA	25 AMPS	100 nSec
BT780-60	6000	200	15	1 uA	25 AMPS	100 nSec
BT780-70	7000	150	15	1 uA	25 AMPS	100 nSec
BT780-80	8000	130	18	1 uA	25 AMPS	100 nSec
BT780-90	9000	120	18	1 uA	25 AMPS	100 nSec
BT780-100	10000	100	23	1 uA	25 AMPS	100 nSec
BT780-110	11000	100	23	1 uA	25 AMPS	100 nSec
BT780-120	12000	100	23	1 uA	25 AMPS	100 nSec
BT780-130	13000	100	23	1 uA	25 AMPS	100 nSec
BT780-150	15000	100	38	1 uA	25 AMPS	100 nSec
BT780-200	20000	100	45	1 uA	25 AMPS	100 nSec

RECOVERY TIME: If = 20 mA, iR = 40 mA RECOVER TO 10 mA
SUFFIX “A” REPRESENTS AVALANCHE CHARACTERISTICS EX: BT780-150A

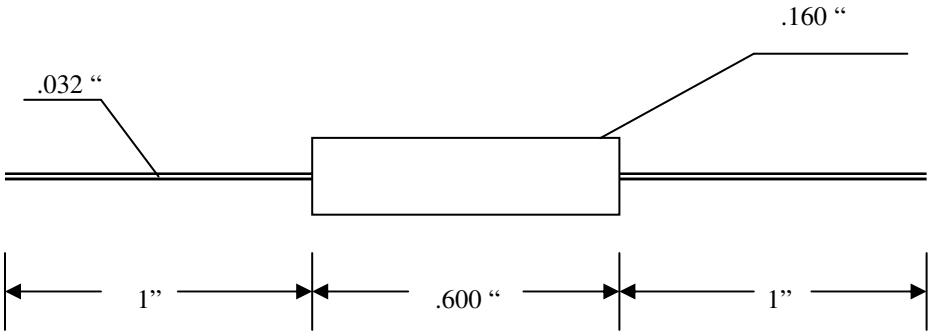
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SERIES B1506

FAST RECOVERY SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o AMPS @ 40º C	V_f @ 100 mA @ 25º C	I_r @ PIV @ 25º C	MAX SINGLE CYCLE SURGE CURRENT	T_{rr}
B1506-50	5000	.30A	10 V	1 uA	30 AMPS	100 nSec
B1506-70	7000	.15 A	18 V	1 uA	30 AMPS	100 nSec
B1506-100	10000	.10 A	23 V	1 uA	30 AMPS	100 nSec
B1506-120	12000	.10 A	23 V	1 uA	30 AMPS	100 nSec
B1506-150	15000	.10 A	38 V	1 uA	30 AMPS	100 nSec
B1506-200	20000	.10 A	45 V	1 uA	30 AMPS	100 nSec

EQUIV. TO BS780 – ( ) EXCEPT RECOVERY TIME
SUFFIX “A” REPRESENTS AVALANCHE CHARACTERISTICS EX: B1506-100A
NOTE 1: RECOVERY TIME MEASURED ON STORED CHARGE METER @ 99.9 mA.

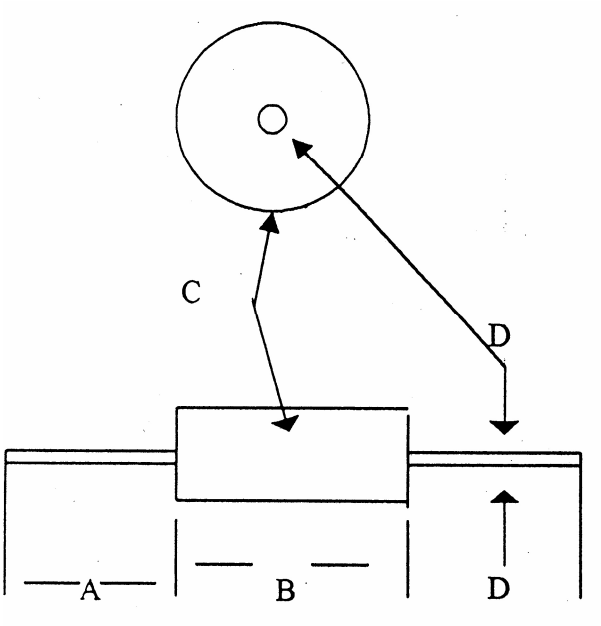
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SERIES B1481

SILICON HIGH VOLTAGE RECTIFIER



DIM	INCHES
A	.750
B	.375
C	.270
D	.050

BODY: MOLDED BLACK EPOXY
LEADS: SILVER PLATED COPPER
MARKING: POLARITY BAND, P/N, DATE CODE

PART NUMBER	PIV VOLTS	I_o AMPS **	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT	T_{rr}
B1481-20	2000	1.5	4.0	10 uA	100 AMPS	150 nSec
B1481-30	3000	1.5	6.0	10 uA	100 AMPS	150 nSec
B1481-40	4000	1.0	8.0	10 uA	100 AMPS	150 nSec
B1481-50	5000	.800	10.0	10 uA	100 AMPS	150 nSec
B1481-60	6000	.750	12.0	10 uA	100 AMPS	150 nSec
B1481-70	7000	.600	13.0	10 uA	100 AMPS	150 nSec
B1481-80	8000	.500	15.0	10 uA	100 AMPS	150 nSec

RECOVERY TIME (Trr) MEASURED I_f = .5A/I_r = 1A/I_{rr} = .25A

MAXIMUM AMBIENT OPERATING TEMPERATURE, -55° C TO +125° C

** IN OIL T = 55° C

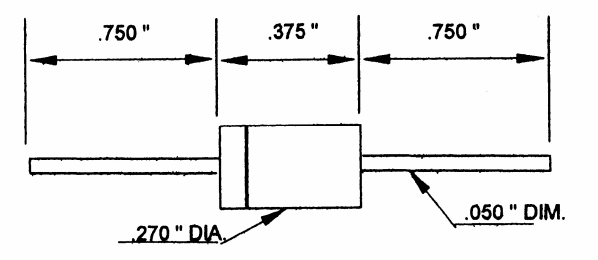
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SERIES B656

SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o AMPS @ 50° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT
B656-15	1500	1.5	3	10 uA	40 AMPS
B656-20	2000	1.5	3	10 uA	40 AMPS
B656-30	3000	1.3	4	10 uA	40 AMPS
B656-40	4000	1.1	5	10 uA	40 AMPS
B656-50	5000	.95	6	10 uA	40 AMPS
B656-60	6000	.60	7	10 uA	40 AMPS
B656-70	7000	.48	8	10 uA	40 AMPS
B656-80	8000	.45	9	10 uA	40 AMPS
B656-90	9000	.40	10	10 uA	40 AMPS
B656-100	10000	.35	11	10 uA	40 AMPS

SUFFIX “A” REPRESENTS AVALANCHE CHARACTERISTICS
EX: B656-100A

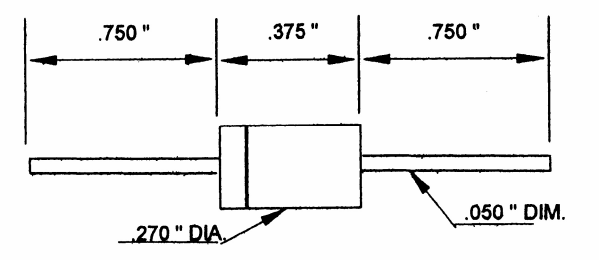
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SERIES BR656

SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o AMPS @ 50° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT	Trr
BR656-15	1500	1.0	4.2	20 uA	40 AMPS	300 nSEC
BR656-20	2000	1.0	4.2	20 uA	40 AMPS	300 nSEC
BR656-30	3000	.75	5.6	20 uA	40 AMPS	300 nSEC
BR656-40	4000	.60	7.0	20 uA	40 AMPS	300 nSEC
BR656-50	5000	.50	8.4	20 uA	40 AMPS	300 nSEC
BR656-60	6000	.42	9.8	20 uA	40 AMPS	300 nSEC
BR656-70	7000	.375	11.2	20 uA	40 AMPS	300 nSEC
BR656-80	8000	.33	12.6	20 uA	40 AMPS	300 nSEC
BR656-90	9000	.30	14.0	20 uA	40 AMPS	300 nSEC
BR656-100	10000	.27	15.4	20 uA	40 AMPS	300 nSEC

Trr – MEASURED AT .5 AMP FORWARD, 1.0 AMP REVERSE, RECOVER TO .25 AMP
SUFFIX "A" REPRESENTS AVALANCHE CHARACTERISTICS
EX: BR656-100A

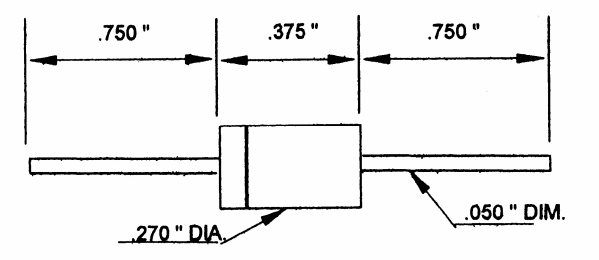
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SERIES BS656

SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o AMPS @ 50° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT	Trr
BS656-15	1500	.875	4.8	20 uA	40 AMPS	200 nSEC
BS656-20	2000	.875	4.8	20 uA	40 AMPS	200 nSEC
BS656-30	3000	.65	6.4	20 uA	40 AMPS	200 nSEC
BS656-40	4000	.52	8.0	20 uA	40 AMPS	200 nSEC
BS656-50	5000	.43	9.6	20 uA	40 AMPS	200 nSEC
BS656-60	6000	.375	11.2	20 uA	40 AMPS	200 nSEC
BS656-70	7000	..33	12.8	20 uA	40 AMPS	200 nSEC
BS656-80	8000	.29	14.4	20 uA	40 AMPS	200 nSEC
BS656-100	10000	.25	16.0	20 uA	40 AMPS	200 nSEC

Trr – MEASURED AT .5 AMP FORWARD, 1.0 AMP REVERSE, RECOVER TO .25 AMP
SUFFIX "A" REPRESENTS AVALANCHE CHARACTERISTICS
EX: BS656-100A

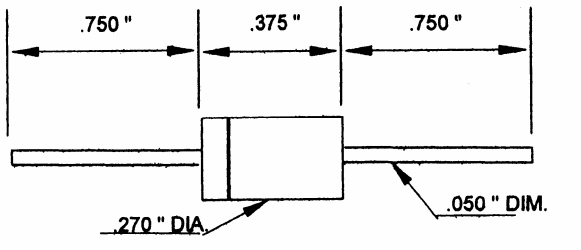
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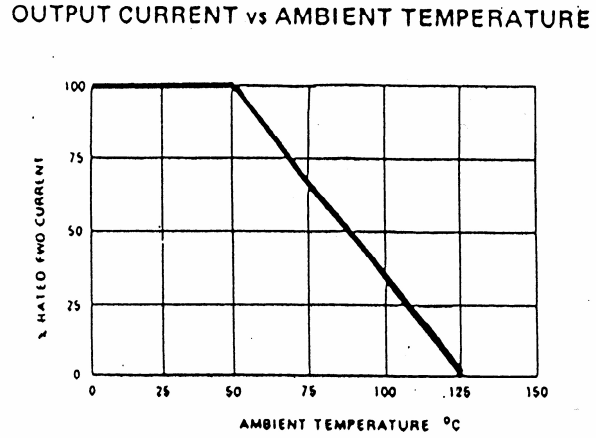
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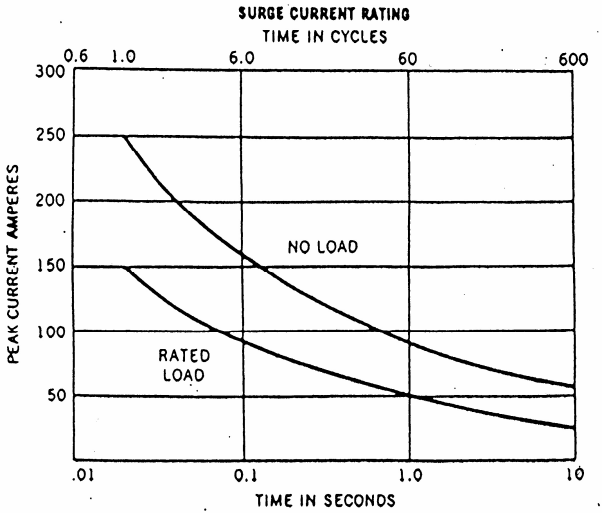
SUB-MINIATURE SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o AMPS 50° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT
B697-20	2000	2.65	3.0	10 uA	250 AMPS
B697-25	2500	2.00	4.0	10 uA	250 AMPS
B697-30	3000	1.60	5.0	10 uA	250 AMPS

Maximum Ambient Operating Temperature –55° C to +125° C





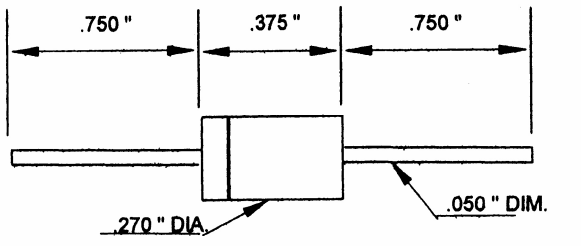
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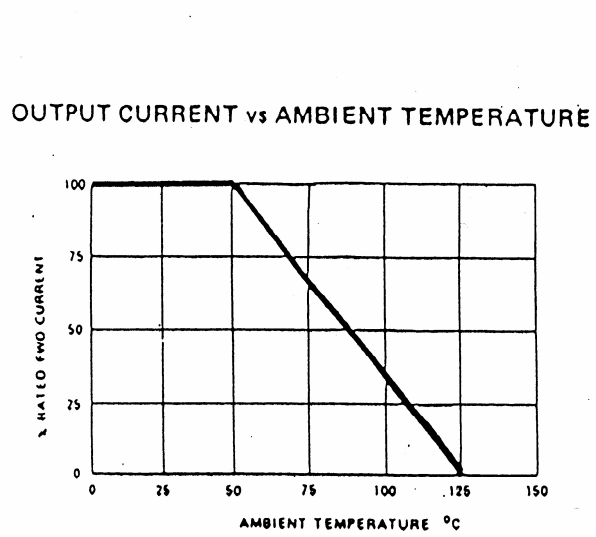
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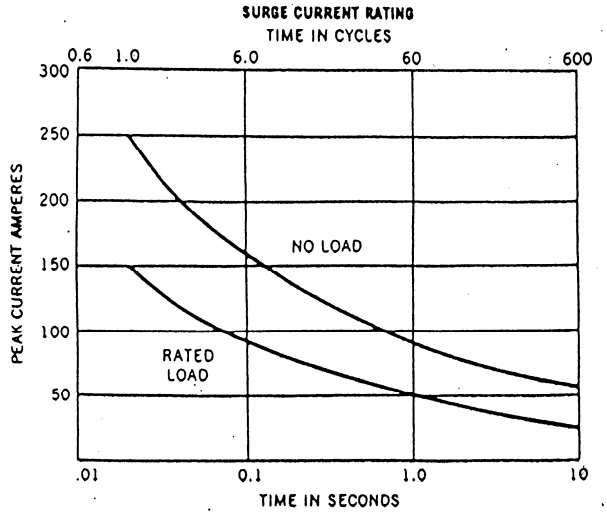
SUB-MINIATURE SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o AMPS 50° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT	T_{rr}
BS697-20	2000	1.5	4.5	10 uA	250 AMPS	150 nSec
BS697-25	2500	1.5	6.0	10 uA	250 AMPS	150 nSec
BS697-30	3000	1.5	6.0	10 uA	250 AMPS	150 nSec

Maximum Ambient Operating Temperature –55° C to +125° C
Recovery Time: .5 Amp Forward to 1 Amp Reverse Recover to .25 Amp





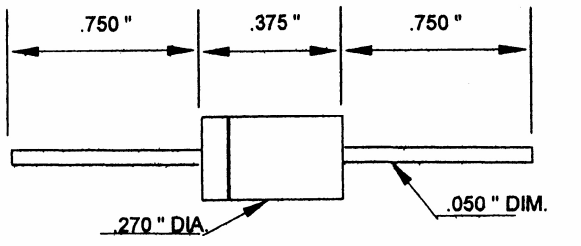
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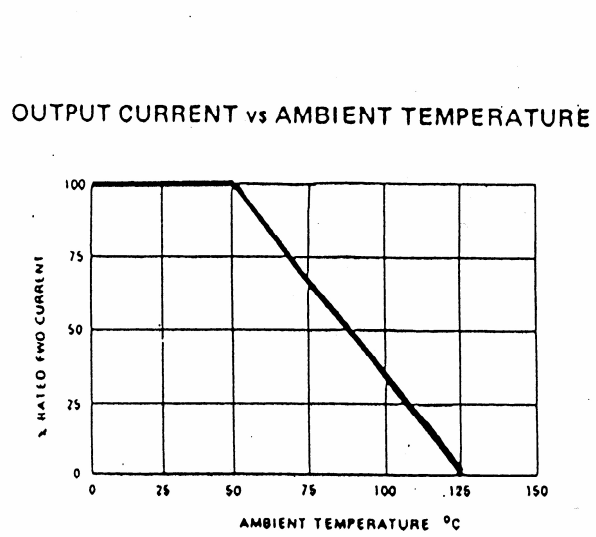
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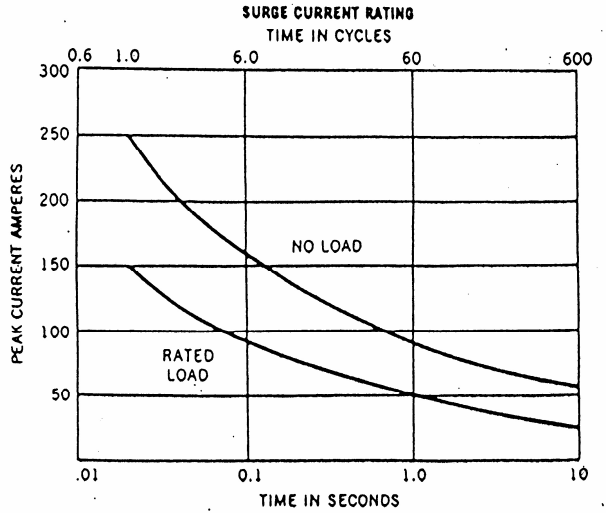
SUB-MINIATURE SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o AMPS 50° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT	T_{rr}
BT697-20	2000	1.5	4.5	10 uA	250 AMPS	100 nSec
BT697-25	2500	1.5	6.0	10 uA	250 AMPS	100 nSec
BT697-30	3000	1.5	6.0	10 uA	250 AMPS	100 nSec

Maximum Ambient Operating Temperature –55° C to +125° C
Recovery Time: .5 Amp Forward to 1 Amp Reverse Recover to .25 Amp





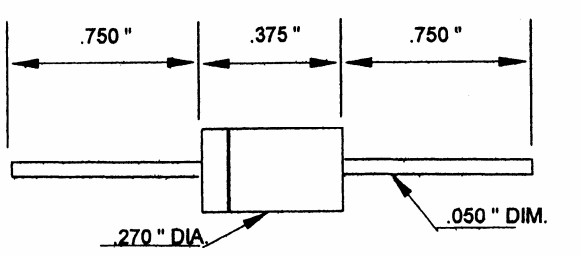
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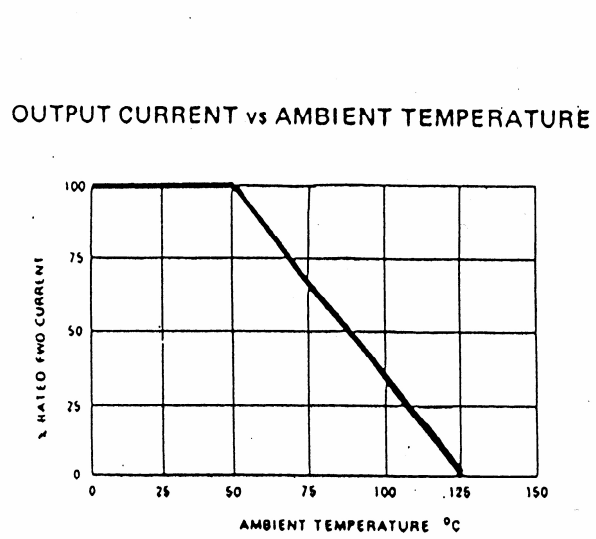
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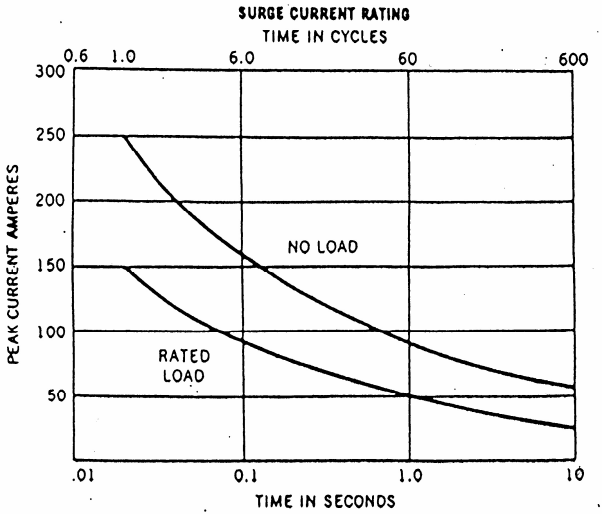
SUB-MINIATURE SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o AMPS 50° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT
B1776-20	2000	2.65	3.0	10 uA	250 AMPS
B1776-25	2500	2.00	4.0	10 uA	250 AMPS
B1776-30	3000	1.60	5.0	10 uA	250 AMPS
B1776-40	4000	1.30	6.0	10 uA	250 AMPS
B1776-50	5000	1.15	7.0	10 uA	250 AMPS
B1776-60	6000	1.00	8.0	10 uA	250 AMPS

Maximum Ambient Operating Temperature –55° C to +125° C





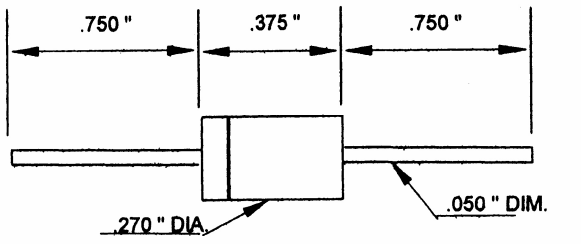
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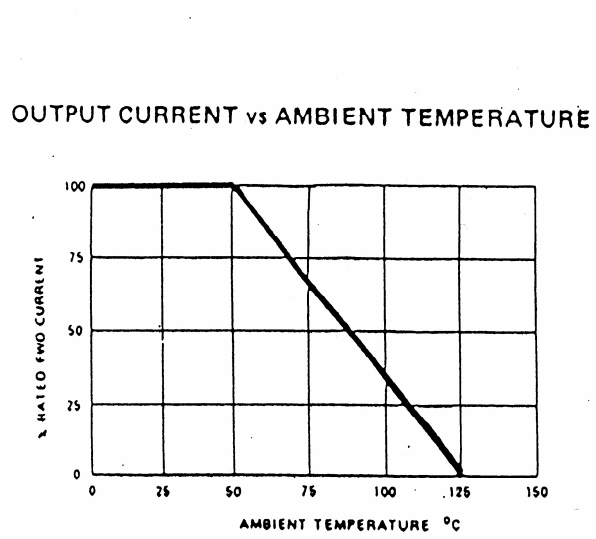
SERIES BS1776

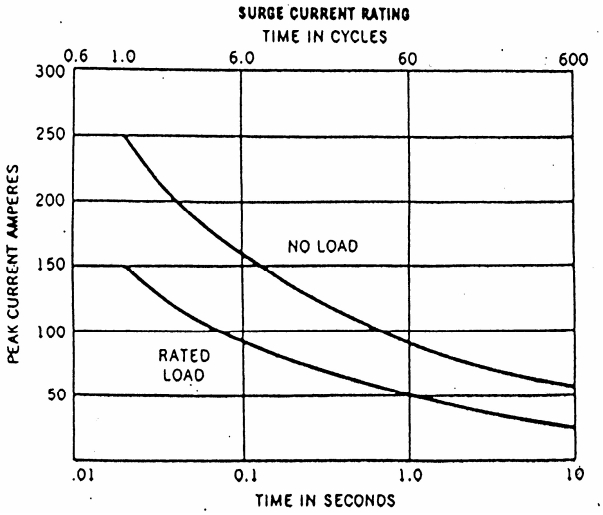
SUB-MINIATURE SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o AMPS 50° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT	T_{rr}
BS1776-20	2000	1.5	4.5	10 uA	250 AMPS	150 nSec
BS1776-25	2500	1.5	6.0	10 uA	250 AMPS	150 nSec
BS1776-30	3000	1.5	6.0	10 uA	250 AMPS	150 nSec
BS1776-40	4000	1.25	7.5	10 uA	250 AMPS	150 nSec
BS1776-50	5000	1.0	10.5	10 uA	250 AMPS	150 nSec
BS1776-60	6000	.75	12.0	10 uA	250 AMPS	150 nSec

Maximum Ambient Operating Temperature –55° C to +125° C
Recovery Time: .5 Amp Forward to 1 Amp Reverse Recover to .25 Amp





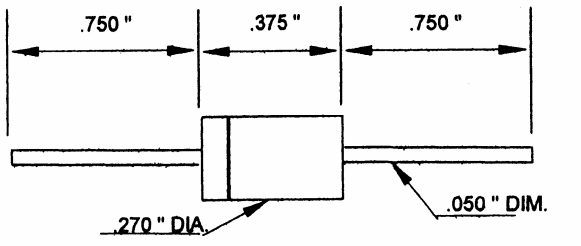
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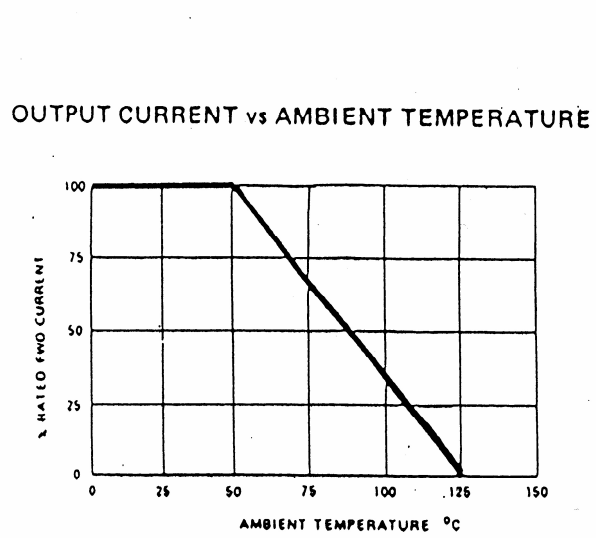
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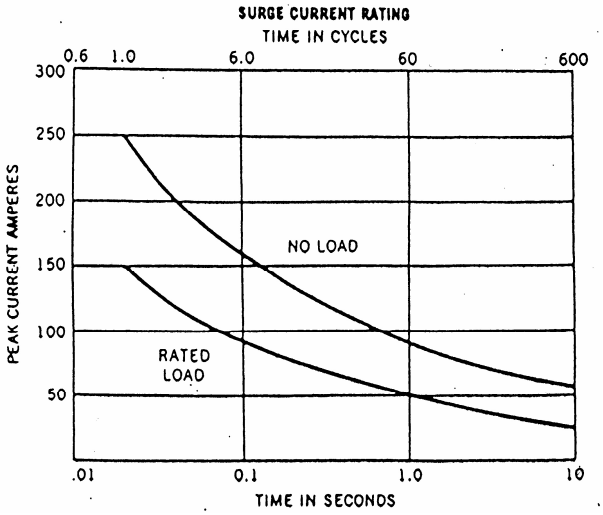
SUB-MINIATURE SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o AMPS 50° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT	T_{rr}
BT1776-20	2000	1.5	4.5	10 uA	250 AMPS	100 nSec
BT1776-25	2500	1.5	6.0	10 uA	250 AMPS	100 nSec
BT1776-30	3000	1.5	6.0	10 uA	250 AMPS	100 nSec
BT1776-40	4000	1.25	7.5	10 uA	250 AMPS	100 nSec
BT1776-50	5000	1.0	10.5	10 uA	250 AMPS	100 nSec
BT1776-60	6000	.75	12.0	10 uA	250 AMPS	100 nSec

Maximum Ambient Operating Temperature –55° C to +125° C
Recovery Time: .5 Amp Forward to 1 Amp Reverse Recover to .25 Amp





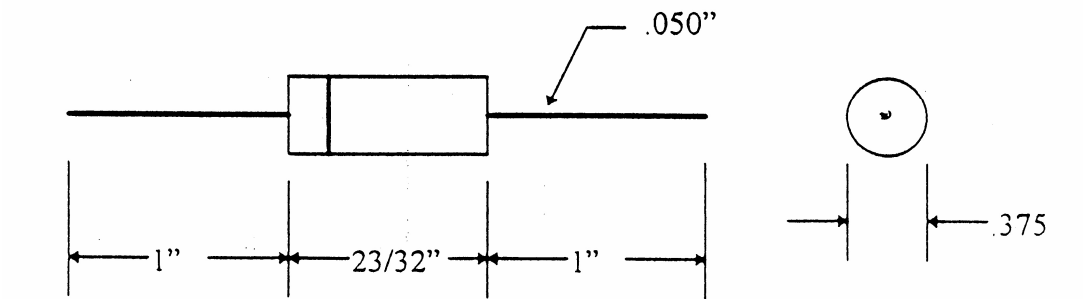
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SERIES B933

SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o mA @ 40° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT @ 60 Hz
B933-50	5000	800	7	10 uA	100 AMPS
B933-60	6000	700	10	10 uA	100 AMPS
B933-70	7000	550	10	10 uA	100 AMPS
B933-80	8000	500	12	10 uA	100 AMPS
B933-90	9000	430	12	10 uA	100 AMPS
B933-100	10000	350	15	10 uA	100 AMPS
B933-110	11000	250	15	10 Ua	100 AMPS
B933-120	12000	250	15	10 uA	100 AMPS
B933-130	13000	250	15	10 uA	100 AMPS
B933-140	14000	250	15	10 uA	100 AMPS
B933-150	15000	250	16	10 uA	100 AMPS
B933-160	16000	200	25	10 uA	100 AMPS
B933-170	17000	200	25	10 uA	100 AMPS
B933-180	18000	200	25	10 uA	100 AMPS
B933-190	19000	200	25	10 uA	100 AMPS
B933-200	20000	200	25	10 uA	100 AMPS

OPERATING TEMPERATURE, -55° C TO +150° C
STORAGE TEMPERATURE, –55° C TO +150° C

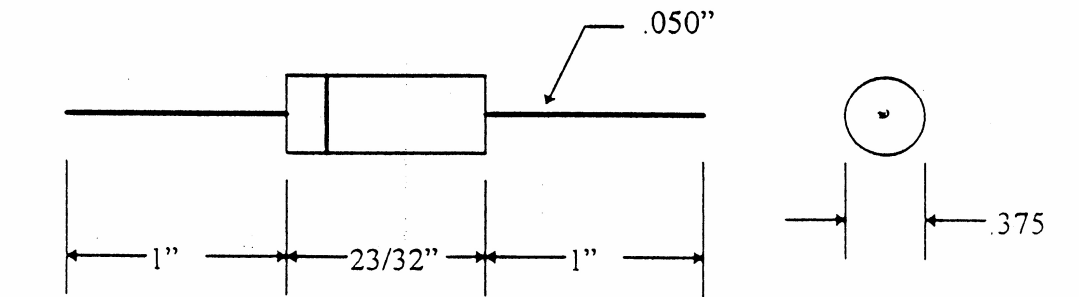
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SERIES BS933

SUB-MINIATURE SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o AMPS @ 40° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT @ 60 Hz	T_{rr}
BS933-50	5000	.65	8	10 uA	100 AMPS	150 nSec
BS933-60	6000	.60	9	10 uA	100 AMPS	150 nSec
BS933-70	7000	.55	10	10 uA	100 AMPS	150 nSec
BS933-80	8000	.50	11	10 uA	100 AMPS	150 nSec
BS933-100	10000	.45	13	10 uA	100 AMPS	150 nSec
BS933-120	12000	.37	16	10 uA	100 AMPS	150 nSec
BS933-150	15000	.35	19	10 uA	100 AMPS	150 nSec

REVERSE RECOVERY TIME PERFORMED ON STORED CHARGE METER @ 100 mA

OPERATING TEMPERATURE, -55° C TO +150° C

STORAGE TEMPERATURE, -55° C TO +150° C

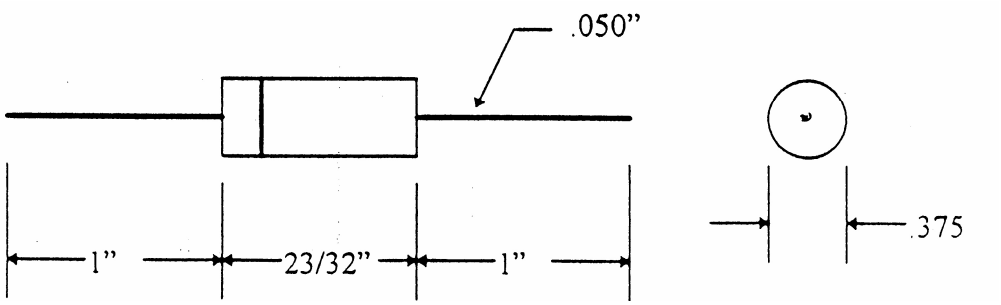
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SERIES BT933

SUB-MINIATURE SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o AMPS @ 40° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT @ 60 Hz	T_{rr}
BT933-50	5000	.65	10	10 uA	100 AMPS	100 nSec
BT933-60	6000	.60	12	10 uA	100 AMPS	100 nSec
BT933-70	7000	.55	14	10 uA	100 AMPS	100 nSec
BT933-80	8000	.50	16	10 uA	100 AMPS	100 nSec
BT933-100	10000	.45	20	10 uA	100 AMPS	100 nSec
BT933-120	12000	.37	24	10 uA	100 AMPS	100 nSec
BT933-150	15000	.35	25	10 uA	100 AMPS	100 nSec
BT933-200	20000	.20	32	10 uA	100 AMPS	100 nSec

REVERSE RECOVERY TIME PERFORMED ON STORED CHARGE METER @ 100 mA

OPERATING TEMPERATURE, -55° C TO +150° C

STORAGE TEMPERATURE, -55° C TO +150° C

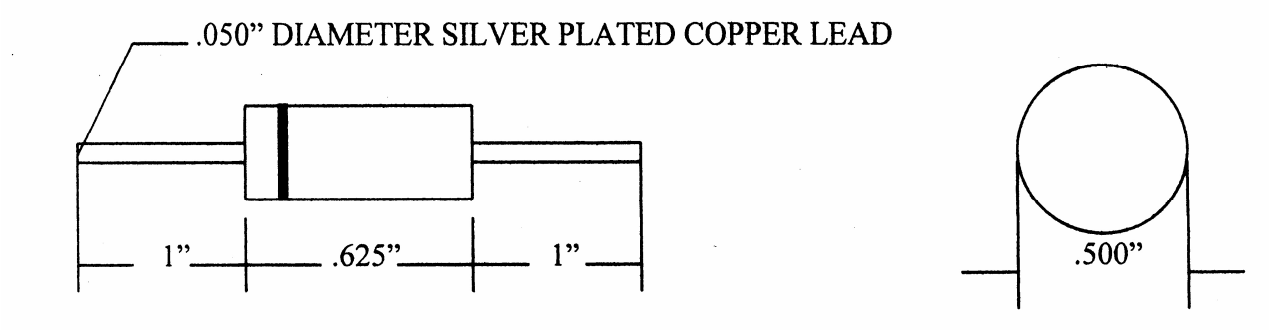
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SERIES B932

SUB-MINIATURE SILICON HIGH VOLTAGE RECTIFIER



PART NUMBER	PIV VOLTS	I_o AMPS @ 40° C	V_f @ I_o @ 25° C	I_r @ PIV @ 25° C	MAX SINGLE CYCLE SURGE CURRENT	T_{rr}
B932-50	5000	2.0	8	10 uA	400 AMPS	5 uSec
B932-60	6000	1.5	8	10 uA	400 AMPS	5 uSec
B932-70	7000	1.1	12	10 uA	400 AMPS	5 uSec
B932-80	8000	1.1	12	10 uA	400 AMPS	5 uSec
B932-100	10000	1.0	15	10 uA	400 AMPS	5 uSec
B932-120	12000	.85	18	10 uA	400 AMPS	5 uSec
B932-150	15000	.75	20	10 uA	400 AMPS	5 uSec
B932-200	20000	.50	24	10 uA	400 AMPS	5 uSec

- TYPICAL, FAST RECOVERY VERSIONS ALSO AVAILABLE (50 TO 500 NANOSECONDS) CONSULT FACTORY
- STYLE: AXIAL LEAD, EPOXY MOLDED BODY
- POLARITY BAND, EDAL, P/N

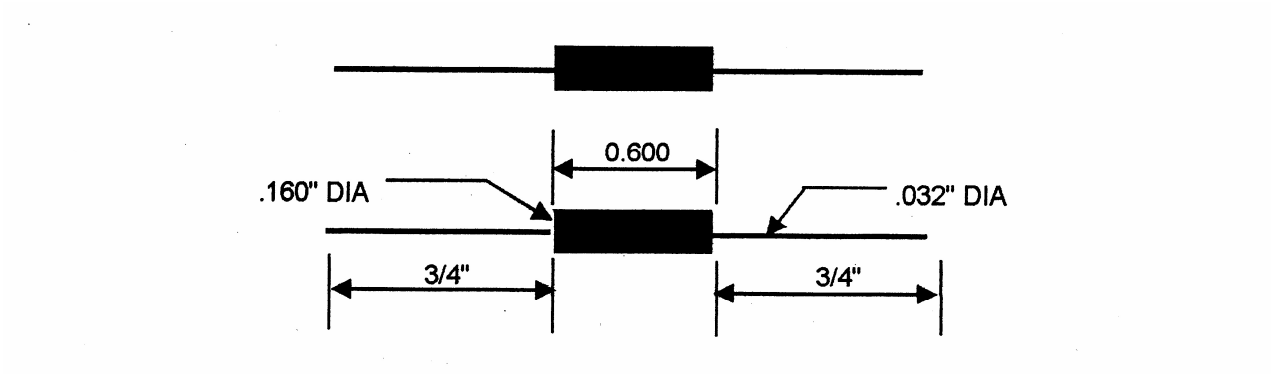
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SERIES B1064-2

SILICON HIGH VOLTAGE BOARD RECTIFIER



ELECTRICAL SPECIFICATIONS

PIV (VOLTS)	**10,000 V**
I_o (IN 55^o C OIL	**220 mA**
V_f @ 100 Ma	**9.5 V Max**
I_r @ PIV @ 25^o C	**5 uA Max**
Diode driven to 5 mA Peak, Reverse slope to be steep and stable	
Peak single cycle surge current	**24 Amps**
V_r @ 500 uA Peak, V_r to be 15 Kv Max	
JUNCTION OPERATING TEMPERATURE	**- 55^o C TO +150^o C**
STORAGE TEMPERATURE	**- 55^o C TO +150^o C**
STAMP POLARITY BAND ONLY	

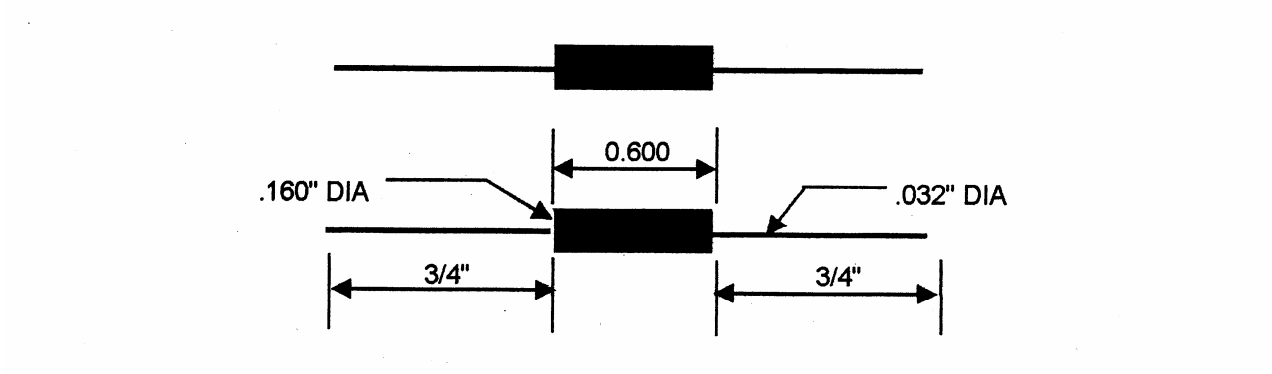
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SERIES BR1064-2

SILICON HIGH VOLTAGE BOARD RECTIFIER



ELECTRICAL SPECIFICATIONS

PIV (VOLTS)	**10,000 V**
I_o (IN 55^o C OIL	**200 mA**
V_f @ 100 Ma	**15 V Max**
I_r @ PIV @ 25^o C	**5 uA Max**
Trr @ I_f = 50mA, I_r = 100 mA, Recovery to 25 mA	**250 nSec Max**
Diode driven to 5 mA Peak, Reverse slope to be steep and stable	
Peak single cycle surge current	**25 Amps**
V_r @ 500 uA Peak, V_r to be 15 Kv Max	
JUNCTION OPERATING TEMPERATURE	**- 55^o C TO +150^o C**
STORAGE TEMPERATURE	**- 55^o C TO +150^o C**
STAMP POLARITY BAND ONLY	

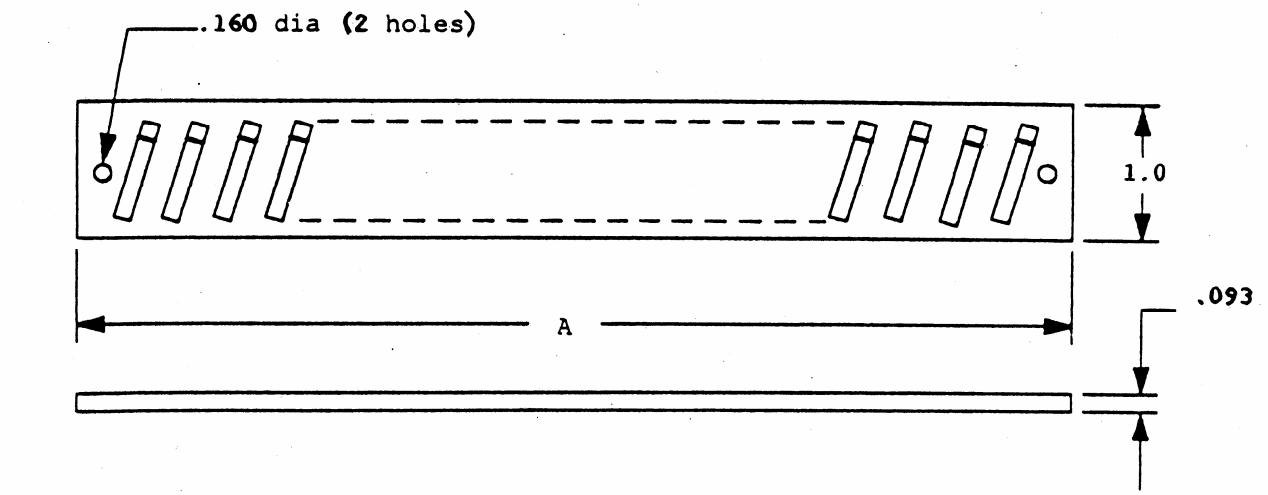
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SERIES B980

SILICON HIGH VOLTAGE ASSEMBLY BOARD



ELECTRICAL RATINGS

PART NUMBER	OPERATING PIV (kV)	TEST PIV (kV)	SINGLE CYCLE SURGE (AMPS)	AVG. RECTIFIED CURRENT **	MAX REVERSE CURRENT @ PIV	NUMBER OF DIODES PER BOARD	OVERALL LENGTH A
B980-100	100	125	25	220 mA	1 uA	16	6 1/16”
B980-125	125	150	25	220 mA	1 uA	19	6 1/6”
B980-150	150	175	25	220 mA	1 uA	22	6 1/6”

CENTER TO CENTER MOUNTING HOLE 5 ¾ “

** TESTED IN OIL @ 55^{o} C

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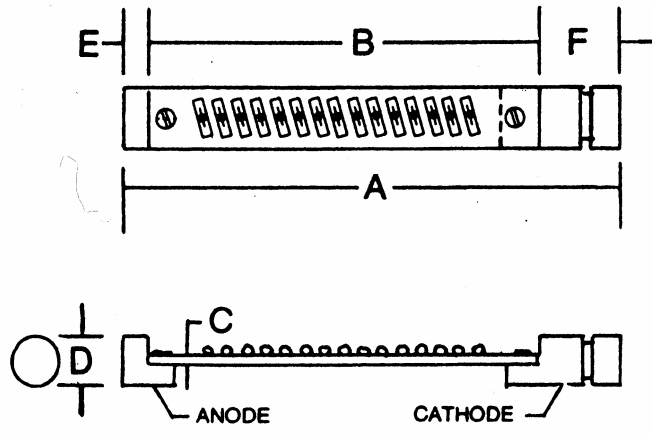
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SERIES B1168

SILICON HIGH VOLTAGE ASSEMBLY BOARD

DIM	INCHES	MILLIMETERS
	B1168	B1168
A	6.93	170
B	5.94	145
C	.0625	3.18
D	.787	20
E	.197	5
F	.791	20



ELECTRICAL RATINGS

		B1168	UNITS
PEAK INVERSE VOLTAGE – Operating (Note 1)	$V_{r\ (oper)}$	120	kV
PEAK INVERSE VOLTAGE – Test	$V_{r\ (test)}$	135	kV
PEAK SURGE CURRENT, ½ CYCLE @ 60 Hz	I_{fsm}	20	Amps
DC FORWARD CURRENT @ 55^{o} C (Note 1)	I_o	220	Ma
JUNCTION OPERATING and STORAGE TEMPERATURE	T_j, T_{stg}	- 55 to + 125	^{o}C

Note 1: Tested in oil @ 55^{o} C

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS		B1168	UNITS
MAXIMUM INSTANTANEOUS VOLTAGE DROP @ I_f = 50 mA	V_{fm}	204	Volts
MAXIMUM REVERSE CURRENT @ $V_{r\ (Oper)}$	I_{rm}	1	uA
MAXIMUM REVERSE CURRENT @ $V_{r\ (test)}$	I_{rm}	1	uA

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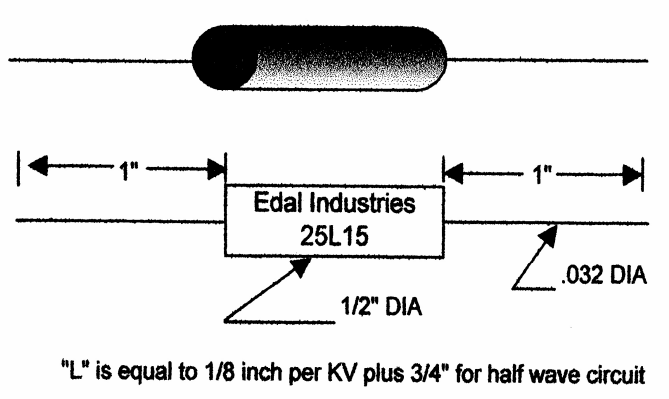
SERIES L

Silicon High Voltage Cartridge

Series L high voltage silicon rectifiers are designed for applications requiring minimum size combined with maximum power. The half-wave configuration consists of matched, pre-tested, pre-selected double diffused avalanche rectifiers offering self-protection against voltage transients. Faster assembly by eliminating the need of soldering many diodes to achieve equivalent circuitry is a decided economy made possible by axial leads that facilitate point-to-point circuit soldering. These compact packages, offering long life and a high degree of reliability, meet rigid environmental conditions. Half-wave circuits in voltage ratings from 1500 to 30,000 volts PIV. Currents range from 20 mA to 1 amp. Special types are available upon request.

Electrical Ratings (for Half Wave Circuit)

Maximum Allowable DC Output Current:	
at 25 ^{O} C ambient temperature,	1 amp
at 100 ^{O} C ambient temperature,	750 mA
at 150 ^{O} C ambient temperature,	250 mA
Maximum Allowable One Cycle Surge Current: (60 cps single phase non-recurrent, at rated PRV and no load	60 amps
Maximum Full Load Forward Voltage Drop Per KV:	
(150 ^{O} C full cycle average)	.5 volt
Maximum Reverse Current:	
(150 ^{O} C full cycle average)	.5 mA
Storage Temperature:	-65 ^{O}C to 150 ^{O} C
Ambient Operating Temperature:	-65 ^{O}C to 150 ^{O} C



SERIES L SPECIFICATIONS

CURRENT (TENS OF Ma)	SERIES DESIGNATION	PIV (HUNDREDS OF VOLTS)
20 mA to 1 amp	L	1500 to 30,000 volts

25 L 15

First number represents current in tens of milliamps, second is the series designation, third PIV in hundreds of volts. 25 L 15, for example, signifies 250 mA, series L, and 1500 volts PIV.

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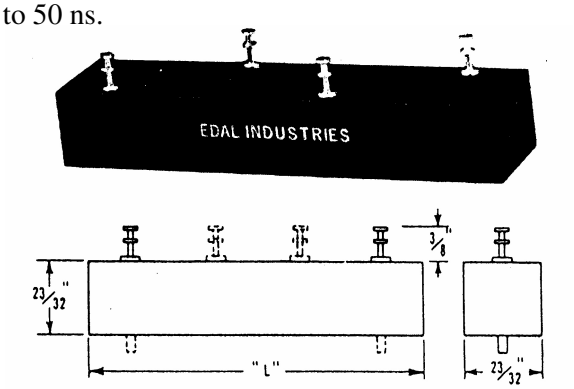
SERIES N

HIGH VOLTAGE MULTIPLE SILICON PACKAGES

Edal's multi-unit package offers many optional configurations in one standard modular design. A sharp reduction in space requirements, simplified purchasing, reduced inventory, fewer lead connections and faster assembly by eliminating the need of soldering many diodes to achieve equivalent circuitry are substantial advantages. Each modular package consists of matched, pre-tested, pre-selected, and double diffused bulk avalanche rectifiers offering self-protection against voltage transients. Low unit cost and increased reliability are proven results of Edal multiple circuits. They are now available in full wave, half wave, doubler, center tap, open bridge, three phase types and fast recovery from 500 to 50 ns.

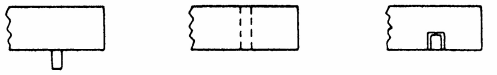
Electrical Ratings

Maximum Allowable DC Output Current:	
at 25 ^{O} C ambient temperature,	6.0 amps
at 100 ^{O} C ambient temperature,	3.0 amps
at 150 ^{O} C ambient temperature,	1.0 amps
Maximum Allowable One Cycle Surge Current:	
(60 cps single phase non-recurrent, at rated PRV and no load	250 amps
Maximum Full Load Forward Voltage Drop	
(150 ^{O} C full cycle average per KV per leg)	.6 volt
Maximum Reverse Current:	
(150 ^{O} C full cycle average)	5 mA
Storage Temperature and	
Operating Temperature:	175 ^{O} C



"L" is equal to ⅛ inch per KV plus 1½" for half wave circuit.

MOUNTING OPTIONS



6-32 ½" STUD | CLEARANCE FOR #6 SCREW | 6-32 ¼" THREADED INSERT

SERIES N SPECIFICATION

CURRENT (TENS OF Ma)	SERIES DESIGNATION	PIV (HUNDREDS OF VOLTS)	CODE	CIRCUIT	CODE	MOUNTING
20 mA to 6 amp	N	1500 to 30,000 volts	B	single phase bridge	S	stud
			C	single phase center tap, positive	H	holes
			D	doubler	I	threaded Insets
			H	single phase half wave		
			J	3 phase, half wave, positive		
			K	3 phase, half wave, negative		
			L	3 phase, bridge		
			M	3 phase, center tap		
			N	single phase, center tap negative		
			U	open bridge, positive		

25 N 15 B S

First number represents current in tens of milliamps, second is the series designation, third PIV in hundreds of volts, fourth code designation for the circuit, fifth code for mounting desired. For example part number 25 N 15 B S, signifies 250 mA, Series N, 1500 volts PIV, single-phase bridge circuit, stud mounting.

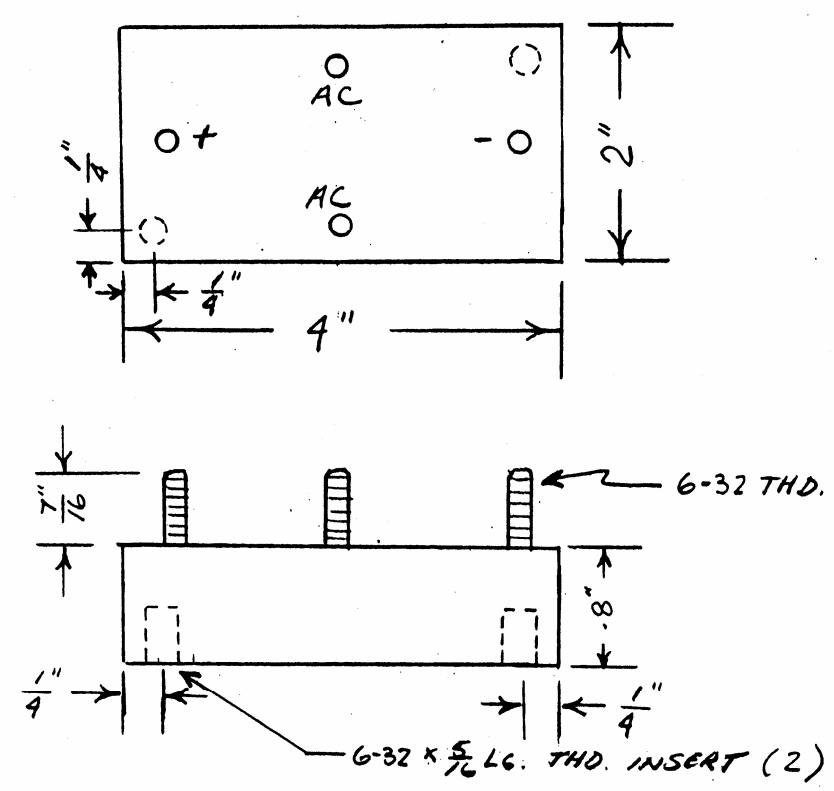
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SERIES B913

Silicon Full Wave Bridge Rectifier



ELECTRICAL RATINGS

PEAK INVERSE VOLTAGE	7 KV
MAXIMUM FULL WAVE OUTPUT CURRENT @ 25° C	3 AMPS
MAXIMUM REVERSE LEAKAGE @ PIV @ 25° C	10 u AMPS
MAXIMUM FORWARD VOLTAGE DROP/SECTION @ 3 AMPS	7 VOLTS

DIELECTRIC TEST: 7KV AC TERMINAL TO GROUND

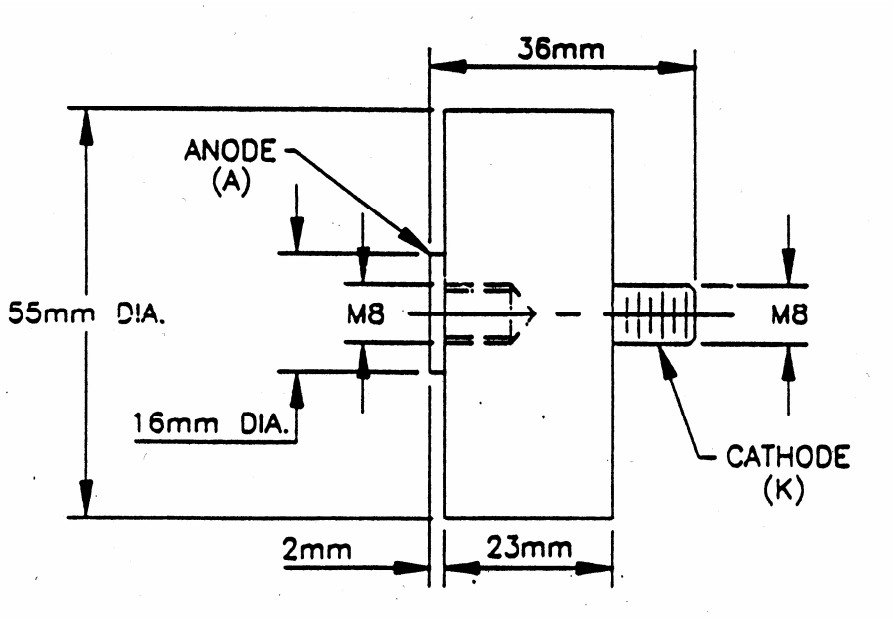
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SERIES B1382

Silicon High Voltage Assembly



ELECTRICAL RATINGS

PIV @ 200 u AMPS	4400 VOLTS MINIUM
MAXIMUM FORWARD VOLTAGE DROP 10 AMPS	4.0 VOLTS

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(203) 469-5928 FAX
Email: Info@ edal.com
Internet:http://www.edal.com

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Edal

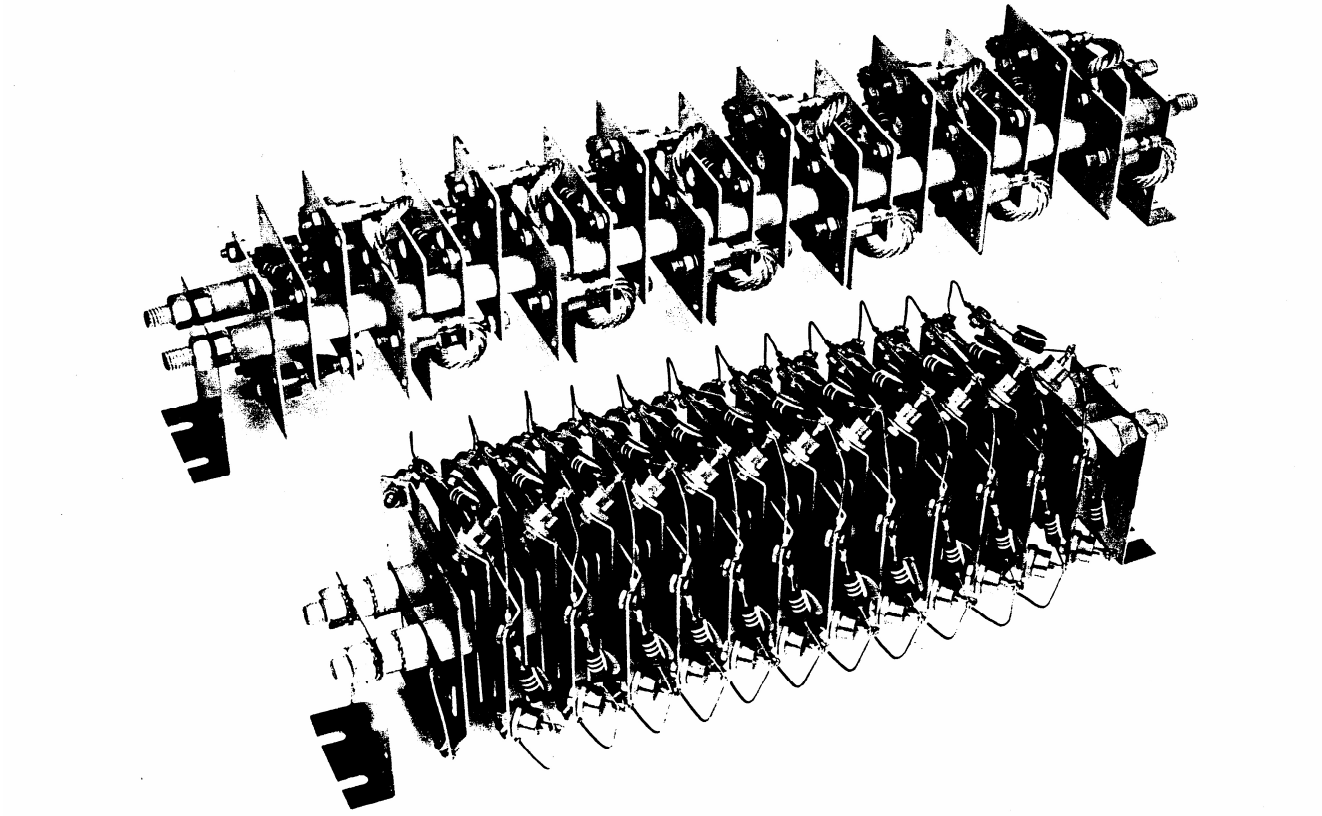
SERIES HIGH VOLTAGE

Silicon High Voltage Assembly

Edal Industries' Silicon High Voltage Assemblies are pretested to meet the most rigorous military and industrial applications, and are ideal for:

AM/FM and Television Broadcast Transmitters
Radio/Radar Transmitters
Ion Implantation
Induction Welding/Heating
High Power X-Ray Equipment
Fusion Equipment
High Power Lasers
RF Generators
High Power Precipitators
Plus countless other high voltage at higher than normal currents

Available in several models, current ranges are from 8 AMPS to 50 AMPS, with voltages to 50KV PIV (extendable with series connecting stacks). Current ranges can be extended to 100 AMP with forced air or auxiliary cooling, or full wave and 3-phase connections. Circuits are available also in doubler, center tap and bridge configurations. Special high voltage assemblies can be built to customer specifications. All Edal assemblies contain pretested and selected bulk avalanche diodes. All are resistive/capacitive compensated to withstand transient conditions. Many allow voltages and currents for virtually any requirement.



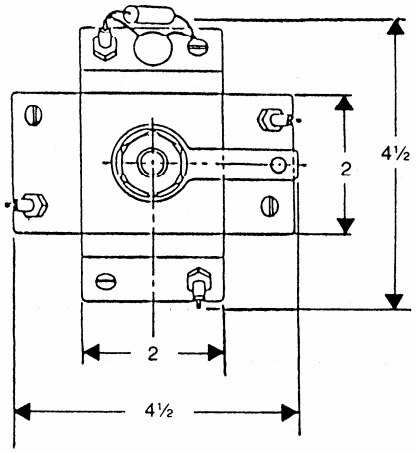
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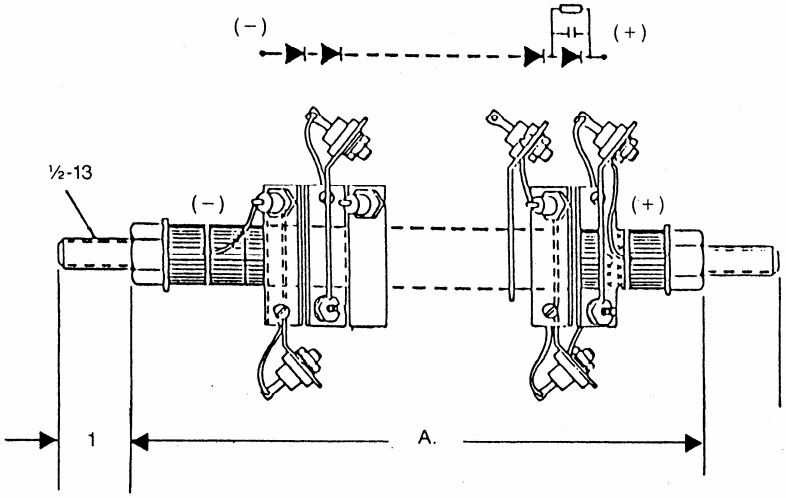
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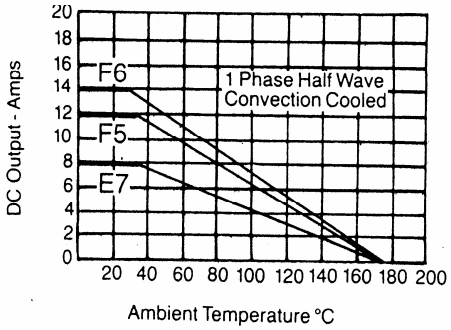
SERIES E7H/F5H/F6H

Silicon High Voltage Assembly





PIV (KV)	A IN	PART NO.	I_S AMPS	PART NO.	I_S AMPS	PART NO.	I_S AMPS
8	5.125	8E7H	250	8F5H	700	8F6H	1200
12	6.250	12E7H		12F5H		12F6H	
16	7.375	16E7H		16F5H		16F6H	
20	8.500	20E7H		20F5H		20F6H	
24	9.625	24E7H		24F5H		24F6H	
28	10.750	28E7H		28F5H		28F6H	
32	11.875	32E7H		32F5H		32F6H	
36	13.000	36E7H		36F5H		36F6H	
40	14.125	40E7H		40F5H		40F6H	
44	15.750	44E7H		44F5H		44F6H	



CIRCUIT	SINGLE PHASE HALF WAVE
SURGE CURRENT	SINGLE CYCLE SEE I_S
PRV	SEE TABLE
DC OUTPUT	SEE CURVES

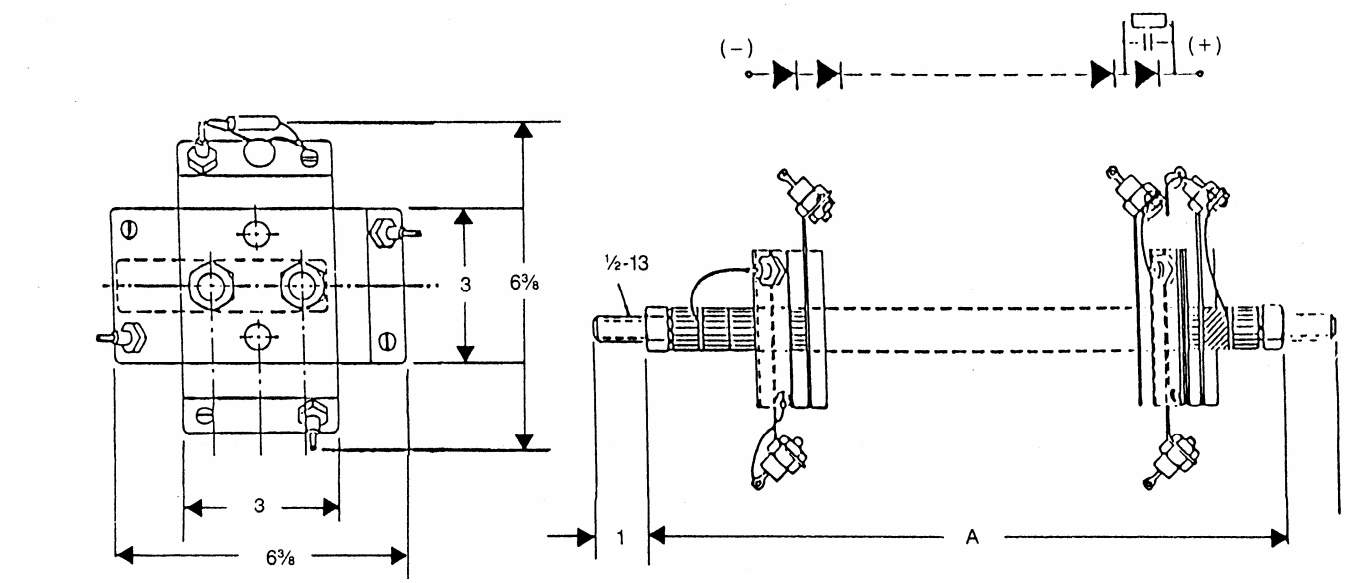
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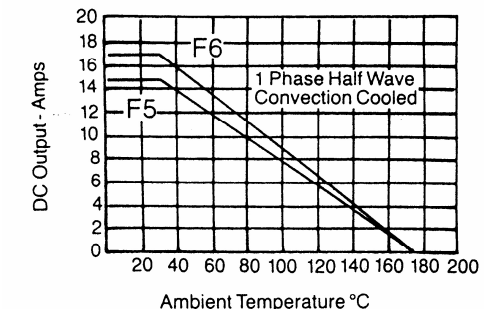
Edal

SERIES F5H1/F6H1

Silicon High Voltage Assembly



PIV (KV)	A IN	PART NO.	I_S AMPS	PART NO.	I_S AMPS
8	5.625	8F5H1	700	8F6H1	1200
12	6.750	12F5H1		12F6H1	
16	7.875	16F5H1		16F6H1	
20	9.000	20F5H1		20F6H1	
24	10.125	24F5H1		24F6H1	
28	11.250	28F5H1		28F6H1	
32	12.375	32F5H1		32F6H1	
36	13.500	36F5H1		36F6H1	
40	14.625	40F5H1		40F6H1	
44	15.750	44F5H1		44F6H1	
48	16.875	48F5H1		48F6H1	



CIRCUIT	SINGLE PHASE HALF WAVE
SURGE CURRENT	SEE I_S
PRV	SEE TABLE
DC OUTPUT	SEE CURVES

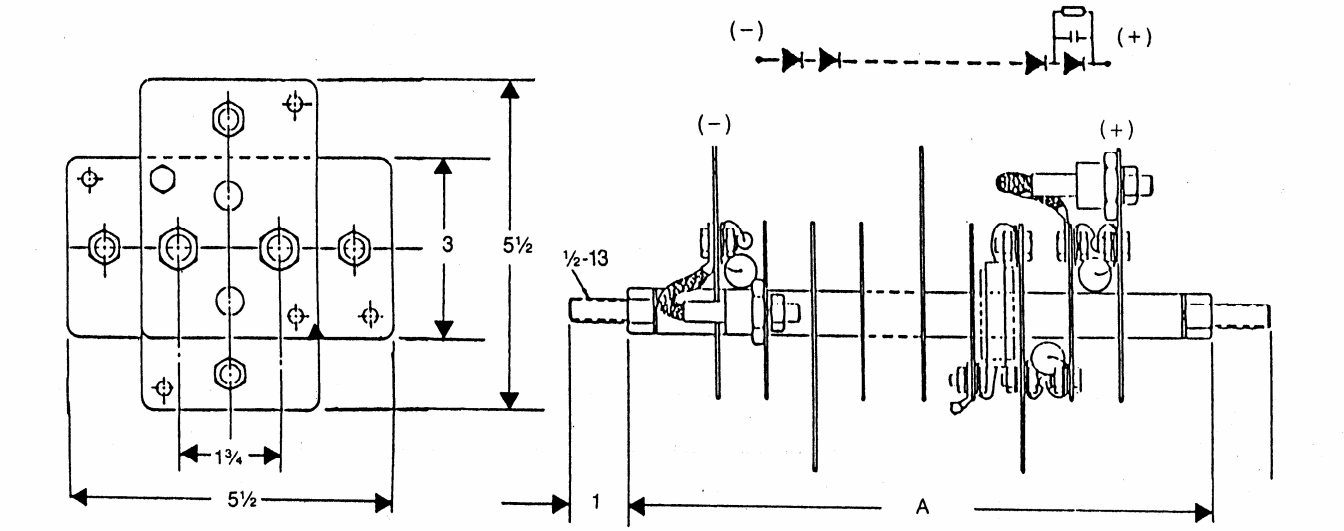
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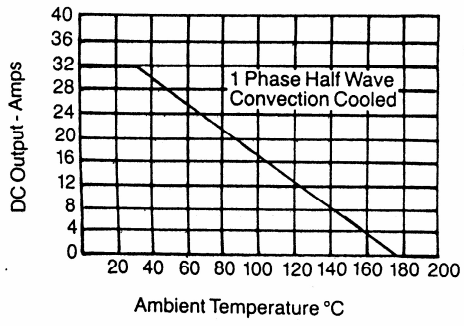
Edal

SERIES G6H

Silicon High Voltage Assembly



PIV (KV)	A IN	PART NO.	I_S AMPS
8	10.125	8G6H	1800
12	13.625	12G6H	
16	17.125	16G6H	
20	20.625	20G6H	
24	24.125	24G6H	
28	27.625	28G6H	
32	31.125	32G6H	



CIRCUIT — SINGLE PHASE HALF WAVE
SURGE CURRENT — SINGLE CYCLE SEE I_S
PRV — SEE TABLE
DC OUTPUT — SEE CURVES

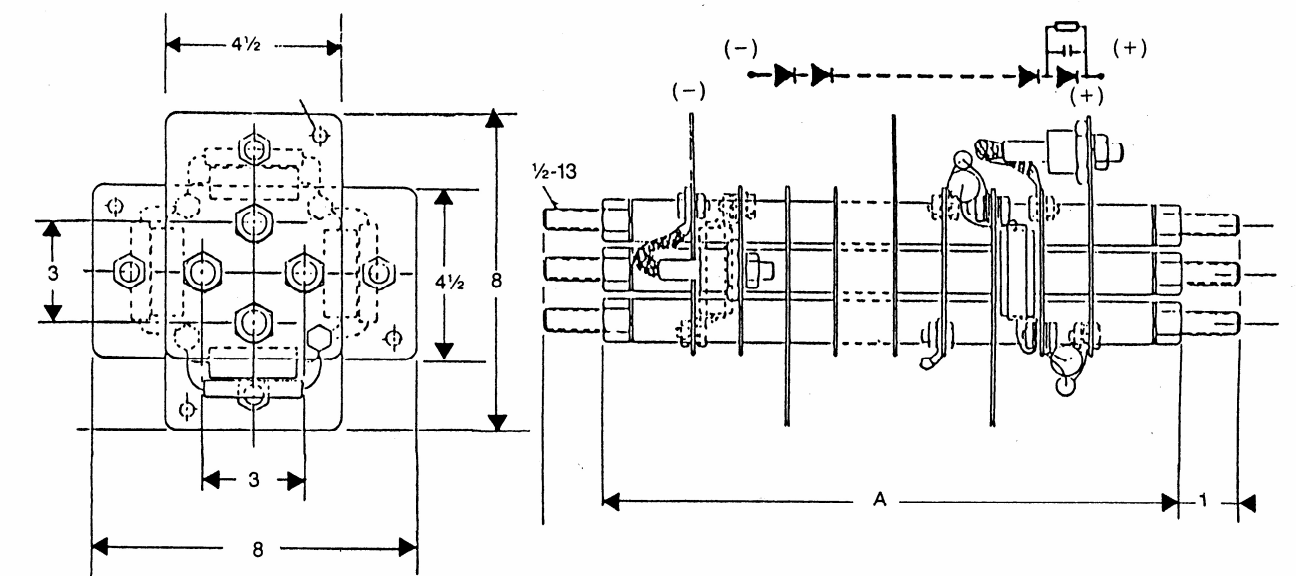
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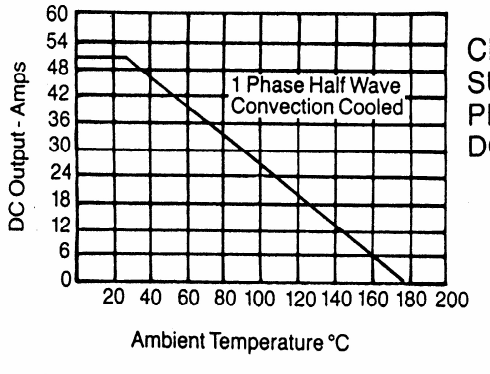
Edal

SERIES G6H1

Silicon High Voltage Assembly



PIV (KV)	A IN	PART NO.	I_S AMPS
8	10.125	8G6H1	1800
12	13.625	12G6H1	
16	17.125	16G6H1	
20	20.625	20G6H1	
24	24.125	24G6H1	
28	27.625	28G6H1	
32	31.125	32G6H1	



CIRCUIT	SINGLE PHASE HALF WAVE
SURGE CURRENT	SINGLE CYCLE SEE I_S
PRV	SEE TABLE
DC OUTPUT	SEE CURVES

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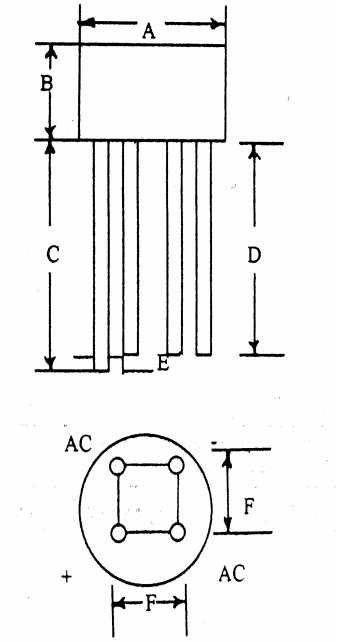
BRIDGE RECTIFIERS

Edal

SERIES B376

Silicon Bridge Rectifier

	INCHES		MILLIMETER	
DIM.	MIN.	MAX.	MIN.	MAX.
A	0.31	0.35	8.00	9.00
B	0.18	0.22	4.60	5.60
C	1.1		27.9	
D	1.0		25.4	
E	0.028	0.034	0.71	0.86
F	0.18	0.22	4.60	5.60



ELECTRICAL RATINGS

MAXIMUM AVERAGE CURRENT
SINGLE PHASE FULL WAVE @ 55^{O} C — 1.5 AMPS

MAXIMUM SINGLE CYCLE SURGE
CURRENT (IFSM) — 30 AMPS

MAXIMUM FORWARD VOLTAGE DROP @ 25^{O} C
@ Io AMPS VF VOLTS (PER SECTION) — 1.2 VOLTS

MAXIMUM REVERSE CURRENT @ PIV @ 25^{O} C — 10 uA

PART NUMBER	PIV
B376-5-1	50
B376-10-1	100
B376-20-1	200
B376-40-1	400
B376-60-1	600
B376-80-1	800
B376-100-1	1000
B376-120-1	1200

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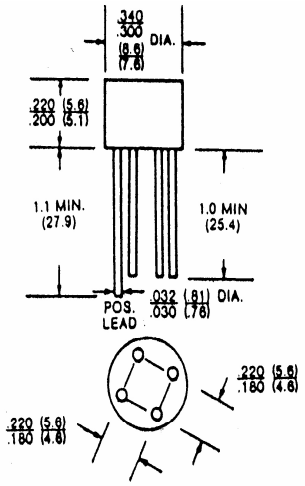
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Edal

SERIES RW

Silicon Bridge Rectifier Fast Recovery





Type	PIV	Max. Average Rectified Current @ Half-Wave Res. Load 60 Hz		Max. Forward Peak Surge Current @ 60 Hz Superimposed	Max. Reverse Current @ PIV Voltage @ 25° C Ta	Max. Forward Voltage @ 25° C Ta		Max. Reverse Recovery Time
		Io @	Ta	IFM (Surge)	Ir	Ifm	Vfm	Trr
	Vpk	Aav	25° C	APK	u ADC	Apk	Vpk	Nsec
RW 005M	50	1.5	25° C	50	10	1.0	1.3	200
RW02M	200	1.5	25° C	50	10	1.0	1.3	200
RW04M	400	1.5	25° C	50	10	1.0	1.3	200
RW06M	600	1.5	25° C	50	10	1.0	1.3	350
RW08M	800	1.5	25° C	50	10	1.0	1.3	350
RW10M	1000	1.5	25° C	50	10	1.0	1.3	500

NOTES: REVERSE RECOVERY TEST CONDITIONS: IF = 0.5A, IR = 1.0A RECOVER TO 25 MA.
OPERATING TEMPERATURE RANGE: -55° C TO +125° C
STORAGE TEMPERATURE RANGE: -55° C TO +150° C

FOR CAPACITANCE LOAD DERATE CURRENT BY 20%
INDIVIDUAL TECHNICAL DATA SHEETS GIVING RATING AND CHARACTERISTIC CURVES ARE AVAILABLE
THE PLASTIC MATERIAL USED IN THE BRIDGES OF 0.5 TO 8 AMPERE RATING CARRIES U/L RECOGNITION 94 V-0

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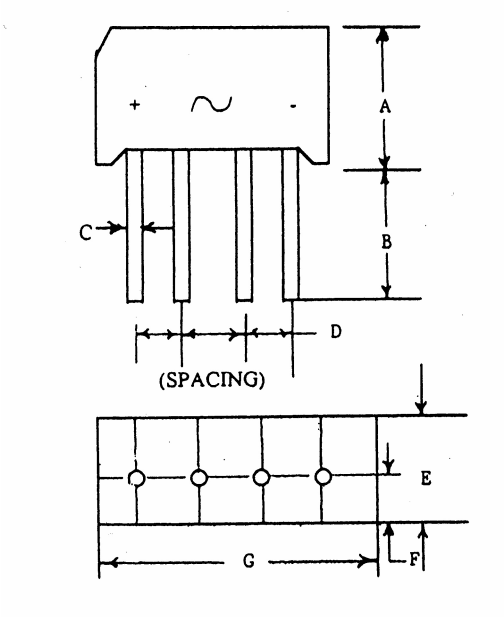
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Edal

SERIES B285

Silicon Bridge Rectifier

	INCHES		MILLIMETER	
DIM.	MIN.	MAX.	MIN.	MAX.
A	0.420	0.460	10.7	11.7
B	.050		12.7	
C	0.028	0.034	0.76	0.86
D	0.14	0.16	3.60	4.10
E	0.180	0.20	4.6	5.1
F	0.039	0.055	1.0	1.4
G	.560	.600	14.2	15.2



ELECTRICAL RATINGS

MAXIMUM AVERAGE CURRENT
SINGLE PHASE FULL WAVE @ 55^{O} C Io — 1.5 AMPS

MAXIMUM SINGLE CYCLE SURGE
CURRENT (IFSM) — 60 AMPS

MAXIMUM FORWARD VOLTAGE DROP @ 25^{O} C
@ Io AMPS VF VOLTS (PER SECTION) — 1.0 VOLTS

MAXIMUM REVERSE CURRENT @ PIV @ 25^{O} C — 10 uA

@PIV @ 100^{O}C — .5 mA

PART NUMBER	PIV
B285-5-1	50
B285-10-1	100
B285-20-1	200
B285-40-1	400
B285-60-1	600
B285-80-1	800
B285-100-1	1000
B285-120-1	1200

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EDAL

Silicon Rectifier Miniature Single Phase Bridges

ELECTRICAL RATINGS

For Single Phase Bridge Circuit

Maximum Allowable DC Output:
at 50 ^{o} C ambient temperature 2.0 amps*
at 100 ^{o} C ambient temperature 1.5 amps

Maximum Allowable One Cycle Surge Current 60 amps

Maximum Peak Recurrent Forward Current 15 amps

Maximum Full Load Forward Voltage Drop
(Peak at 50 ^{o} C) Res. Load 2 volts

Maximum Reverse Current
(25 ^{o} C full cycle average) 5.0 ua
(100 ^{o} C full cycle average) 0.5 mA

* free air mounting. With heat sinking, up to 4.0 amps.

The compact design of Edal miniature single-phase bridge silicon rectifiers offers a sharp reduction in space requirements. Simplified purchasing, reduced inventory, fewer lead connections and faster assembly by eliminating the need for soldering many diodes to achieve equivalent circuitry are other advantages.

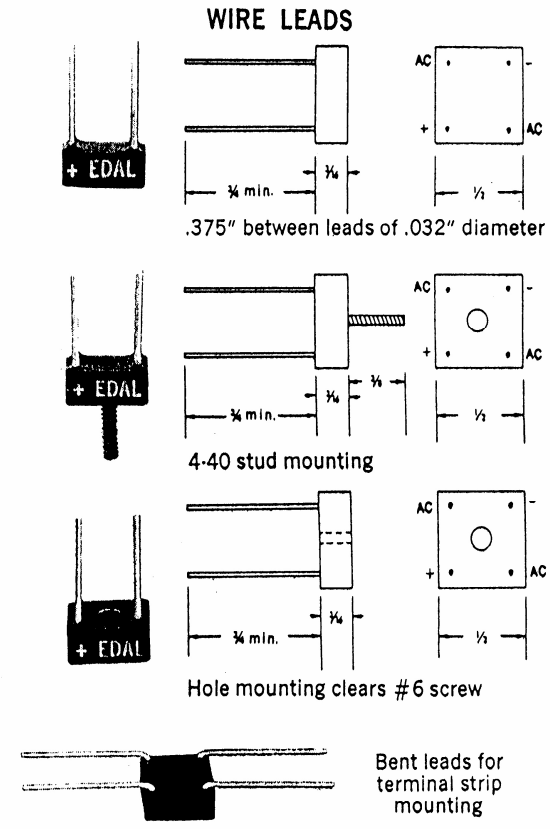
Units contain double diffused passivated junctions in a cold case design for high reliability. Termination is optional to contain wire leads which can be left straight for plug-in or bent for simple terminal strip mounting, turret-type or quick-connect terminal. Holes or studs provide optional mounting.

Electrical ratings highlighted point out the high temperature resistance, low leakage current and low forward voltage drop. Single-phase bridge designs with voltage ratings from 50 to 1200 volts PIV are offered with current of 2 amps by free air mounting or up to 4 amps by utilizing a heat sink. Bulk avalanche design and special ratings available on request.

Part Number B172 Specifications

P/N	Volts PIV	P/N	Volts PIV
B172-5	50	B172-70	700
B172-10	100	B172-80	800
B172-20	200	B172-90	900
B172-30	300	B172-100	1000
B172-40	400	B172-110	1100
B172-50	500	B172-120	1200
B172-70	600		

Add suffix “S” to catalog number to denote stud; “H” to denote hole; “A” to denote bulk avalanche. Example, B172-30SA designates P/N B172 which has wire leads, 300 volts PIV, mounting stud and bulk avalanche.



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Part Number B272 Specifications

P/N	Volts PIV	P/N	Volts PIV
B272-5	50	B272-70	700
B272-10	100	B272-80	800
B272-20	200	B272-90	900
B272-30	300	B272-100	1000
B272-40	400	B272-110	1100
B272-50	500	B272-120	1200
B272-60	600		

Add suffix “S” to catalog number to denote stud; “H” to denote hole; “A” to denote bulk avalanche. Example, B272-30SA designates P/N B272 which has wire leads, 300 volts PIV, mounting stud and bulk avalanche.

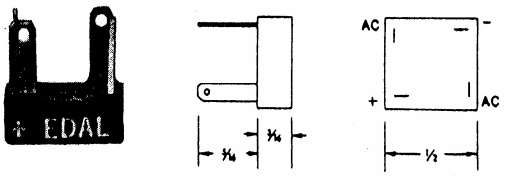
Part Number B372 Specifications

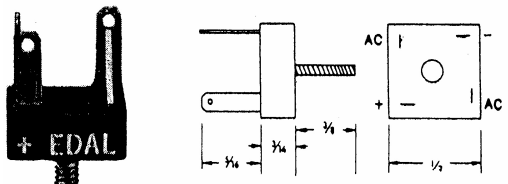
P/N	Volts PIV	P/N	Volts PIV
B372-5	50	B372-70	700
B372-10	100	B372-80	800
B372-20	200	B372-90	900
B372-30	300	B372-100	1000
B372-40	400	B372-110	1100
B372-50	500	B372-120	1200
B372-60	600		

Add suffix “S” to catalog number to denote stud; “H” to denote hole; “A” to denote bulk avalanche. Example, B272-30SA designates P/N B272 which has wire leads, 300 volts PIV, mounting stud and bulk avalanche.

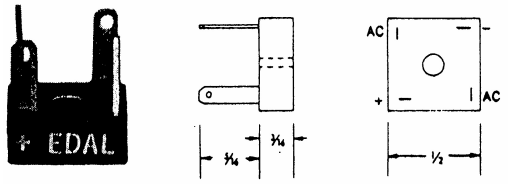
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QUICK CONNECT .110 TERMINALS



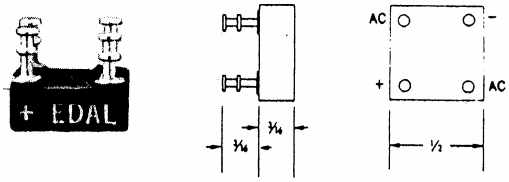


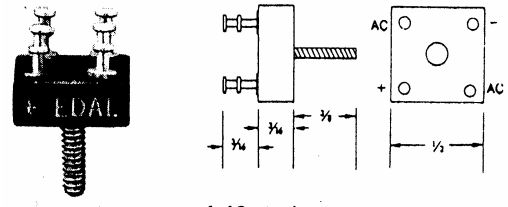
4-40 stud mounting



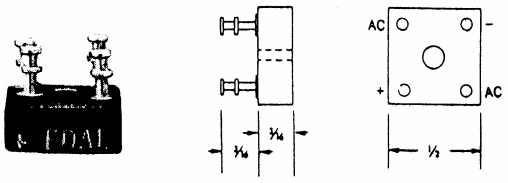
Hole mounting clears #6 screw

TURRET TYPE





4-40 stud mounting



Hole mounting clears #6 screw

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EDAL

Silicon Rectifier Medium Current Single Phase Bridges

ELECTRICAL RATINGS

For Single Phase Bridge Circuit

Maximum Allowable DC Output:
at 50 ° C ambient temperature 6.0 amps*
at 100 ° C ambient temperature 4.0 amps

Maximum Allowable One Cycle Surge Current 200 amps

Maximum Peak Recurrent Forward Current 30 amps

Maximum Full Load Forward Voltage Drop
(Peak at 50 ° C) Res. Load 2 volts

Maximum Reverse Current
(25 ° C full cycle average) 10 ua
(100 ° C full cycle average) 5 mA

* with heat sink

The compact design of Edal medium current single phase bridge rectifiers offers a sharp reduction in space requirements through its ability to handle maximum power per unit size and capability of withstanding high transient energy. Simplified purchasing, reduced inventory, fewer lead connections and faster assembly by eliminating the need for soldering many diodes to achieve equivalent circuitry are other advantages.

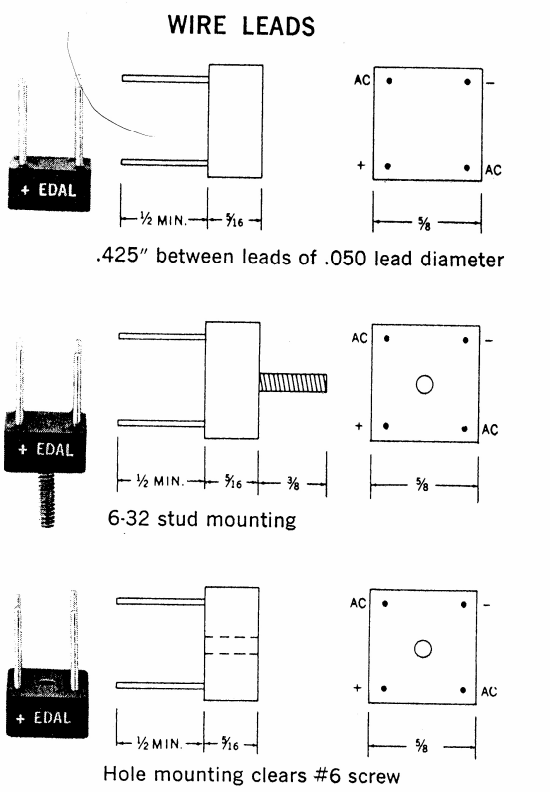
Units contain double diffused passivated junctions in a cold case design for high reliability. Termination is optional to contain wire leads for plug-in or simple terminal strip mounting, turret-type or quick-connect terminal. Holes or studs provide optional mounting.

Electrical ratings highlighted point out the high temperature capability, low leakage current and low forward voltage drop. Single-phase bridge designs with current of 6 amps are offered in voltage ratings from 50 to 1200 volts PIV. Bulk avalanche design and special ratings are available on request.

Part Number B191 Specifications

P/N	Volts PIV	P/N	Volts PIV
B191-5	50	B191-70	700
B191-10	100	B191-80	800
B191-20	200	B191-90	900
B191-30	300	B191-100	1000
B191-40	400	B191-110	1100
B191-50	500	B191-120	1200
B191-60	600		

Add suffix “S” to catalog number to denote stud; “H” to denote hole; “A” to denote bulk avalanche. Example, B191-30SA designates P/N B191 which has wire leads, 300 volts PIV, mounting stud and Bulk Avalanche.



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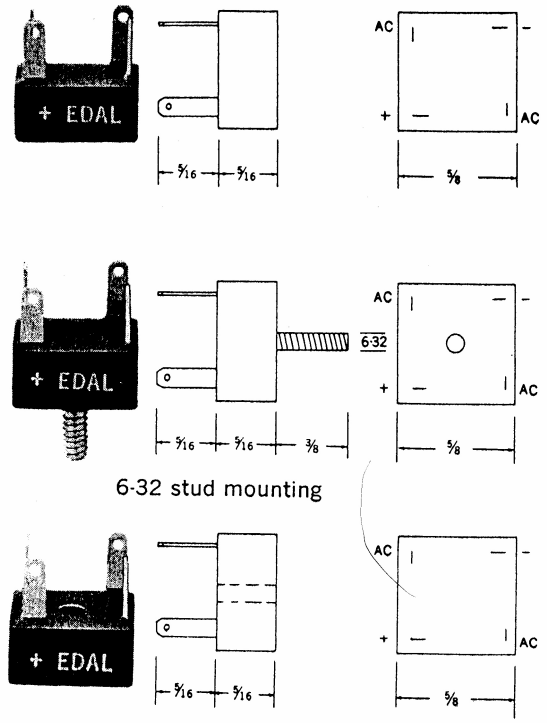
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Part Number B291 Specifications

P/N	Volts PIV	P/N	Volts PIV
B291-5	50	B291-70	700
B291-10	100	B291-80	800
B291-20	200	B291-90	900
B291-30	300	B291-100	1000
B291-40	400	B291-110	1100
B291-50	500	B291-120	1200
B292-60	600		

Add suffix "S" to catalog number to denote stud; "H" to denote hole; "A" to denote bulk avalanche. Example, B291-30SA designates P/N B291 which has wire leads, 300 volts PIV, mounting stud and Bulk Avalanche.

QUICK CONNECT .110 TERMINALS



6-32 stud mounting

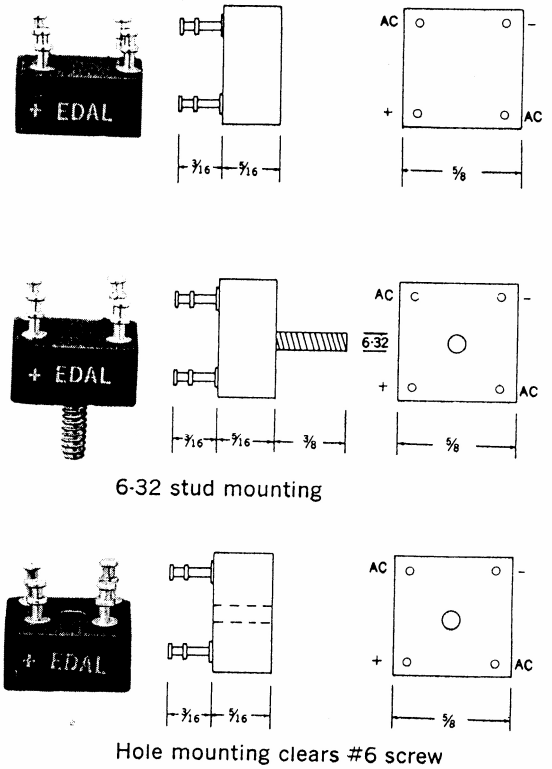
Hole mounting clears #6 screw

Part Number B391 Specifications

P/N	Volts PIV	P/N	Volts PIV
B391-5	50	B391-70	700
B391-10	100	B391-80	800
B391-20	200	B391-90	900
B391-30	300	B391-100	1000
B391-40	400	B391-110	1100
B391-50	500	B391-120	1200
B391-60	600		

Add suffix "S" to catalog number to denote stud; "H" to denote hole; "A" to denote bulk avalanche. Example, B391-30SA designates P/N B391 which has wire leads, 300 volts PIV, mounting stud and Bulk Avalanche.

TURRET TYPE



6-32 stud mounting

Hole mounting clears #6 screw

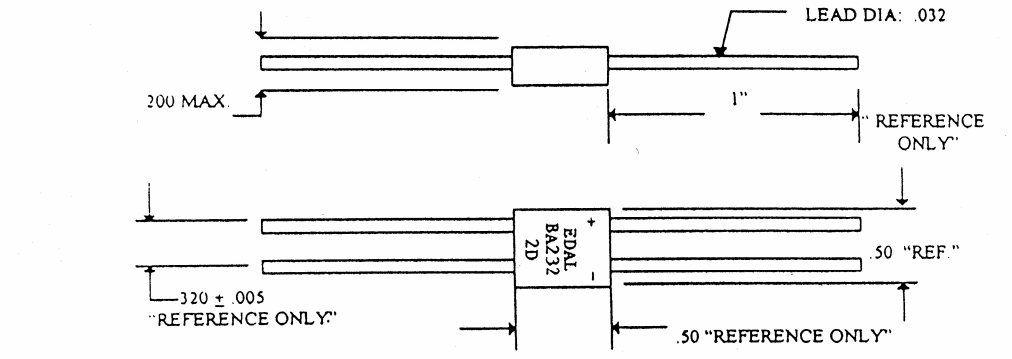
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SERIES BA232

Silicon Bridge Rectifier



ELECTRICAL RATINGS

FOR SINGLE PHASE BRIDGE CIRCUIT

MAXIMUM ALLOWABLE DC OUTPUT CURRENT:	
AT 55^{O} C AMBIENT TEMPERATURE	2.0 AMPS
AT 100^{O}C AMBIENT TEMPERATURE	1.2 AMPS
MAXIMUM SINGLE CYCLE SURGE CURRENT (IFSM)	60 AMPS
MAXIMUM FULL LOAD FORWARD VOLTAGE DROP @ 25^{O} C (PER SECTION)	1.2 VOLTS
MAXIMUM PEAK RECURRENT FORWARD CURRENT	7.5 AMPS
MAXIMUM REVERSE CURRENT (25^{O} C FULL CYCLE AVERAGE) PER SECTION	5 uA

PART NUMBER	PIV
BA232-5	50
BA232-10	100
BA232-20	200
BA232-30	300
BA232-40	400
BA232-50	500
BA232-60	600
BA232-70	700
BA232-80	800
BA232-100	1000
BA232-120	1200

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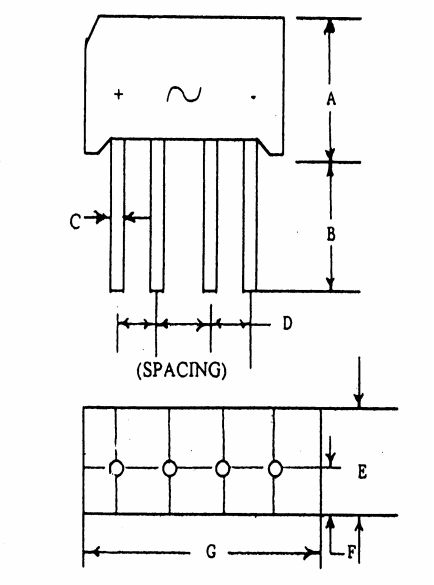
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SERIES B442

Silicon Bridge Rectifier

	INCHES		MILLIMETER	
DIM.	MIN.	MAX.	MIN.	MAX.
A	0.420	0.460	10.7	11.7
B	0.50		12.7	
C	0.028	0.034	0.76	0.86
D	0.14	0.16	3.60	4.10
E	0.180	0.200	4.6	5.1
F	0.039	0.055	1.00	1.40
G	0.560	0.600	14.2	15.2



ELECTRICAL RATINGS

MAXIMUM AVERAGE CURRENT SINGLE PHASE FULL WAVE @ 55^{O} C	2.0 AMPS
MAXIMUM SINGLE CYCLE SURGE CURRENT (IFSM)	60 AMPS
MAXIMUM FORWARD VOLTAGE DROP @ 25^{O} C @ Io AMPS VF VOLTS (PER SECTION)	1.2 VOLTS
MAXIMUM REVERSE CURRENT @ PIV	
@ 25^{O} C PER SECTION	10 uA
@ 100^{O}C PER SECTION	.5 mA

PART NUMBER	PIV
B442-5-1	50
B442-10-1	100
B442-20-1	200
B442-40-1	400
B442-60-1	600
B442-80-1	800
B442-100-1	1000
B442-120-1	1200

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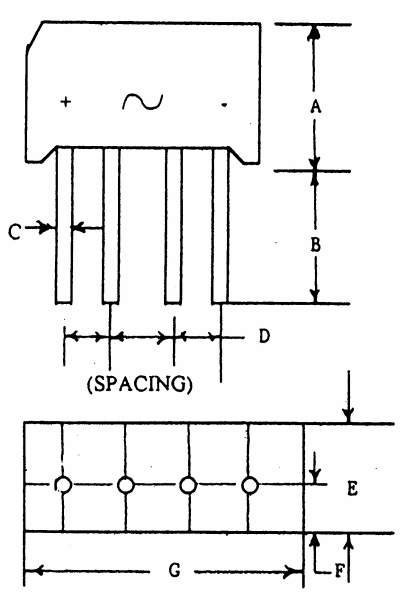
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SERIES B393

Silicon Bridge Rectifier

	INCHES		MILLIMETERS	
DIM.	MIN.	MAX.	MIN.	MAX
A	0.551	0.590	14.0	15.0
B	0.50		12.7	
C	0.028	0.035	0.71	0.89
D	0.14	0.16	3.60	4.10
E	0.236	0.276	6.0	7.0
F	0.085	0.105	2.16	2.67
G	0.63	0.71	16.0	18.0



ELECTRICAL RATINGS

FOR SINGLE PHASE BRIDGE CIRCUIT

MAXIMUM ALLOWABLE DC OUTPUT CURRENT:

AT 55^{O} C AMBIENT TEMPERATURE	3.0 AMPS
AT 100^{O}C AMBIENT TEMPERATURE	2.0 AMPS
MAXIMUM SINGLE CYCLE SURGE CURRENT (IFSM)	60 AMPS
MAXIMUM FULL LOAD FORWARD VOLTAGE DROP @ 1.0 AMP (PER SECTION)	1.0 VOLTS
MAXIMUM REVERSE CURRENT @	
25^{O} C FULL CYCLE AVERAGE PER SECTION	10 uA
100^{O} C FULL CYCLE AVERAGE PER SECTION	.5 mA

PART NUMBER	PIV
B393-5-1	50
B393-10-1	100
B393-20-1	200
B393-40-1	400
B393-60-1	600
B393-80-1	800
B393-100-1	1000
B393-120-1	1200

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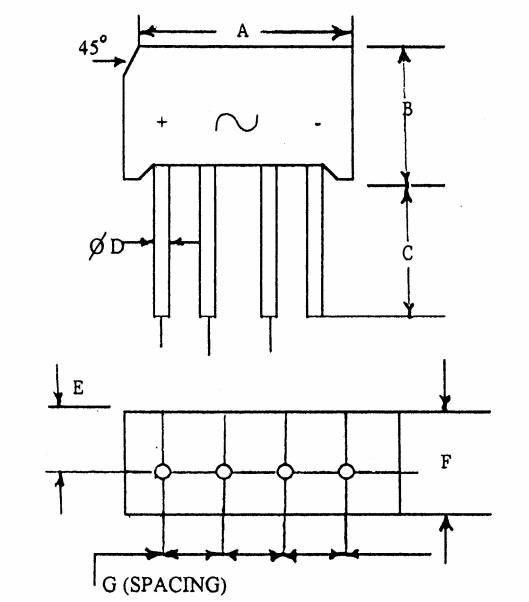
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SERIES B430

Silicon Bridge Rectifier

	INCHES		MILLIMETER	
DIM.	MIN.	MAX.	MIN.	MAX.
A	0.73	0.77	18.54	19.56
B	0.605	0.825	15.36	16.38
C	1.00		25.4	
D	0.048	0.052	1.22	1.32
E	0.065	0.085	1.7	2.2
F	0.235	0.265	5.97	6.73
G	0.19	0.20	4.83	5.83



ELECTRICAL RATINGS

MAXIMUM AVERAGE OUTPUT CURRENT @ 50° C	4.0 AMPS
MAXIMUM SINGLE CYCLE SURGE CURRENT (IFSM)	200 AMPS
MAXIMUM FORWARD VOLTAGE DROP @ 25° C @ 2 AMPS (PER SECTION)	1.1 VOLTS
MAXIMUM REVERSE CURRENT PER SECTION @ PIV @ 25° C	5.0 uA

PART NUMBER	PIV
B430-5-1	50
B430-10-1	100
B430-20-1	200
B430-40-1	400
B430-60-1	600
B430-80-1	800
B430-100-1	1000
B430-120-1	1200

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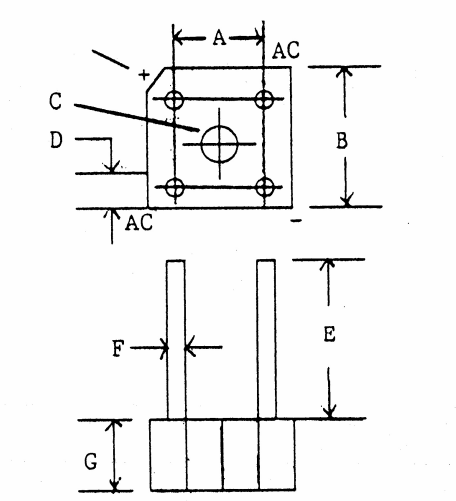
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SERIES B191

Silicon Bridge Rectifier

	INCHES		MILLIMETER	
DIM.	MIN.	MAX.	MIN.	MAX.
A	0.405	0.445	10.5	11.3
B	0.58	0.62	14.7	15.75
C	0.142	0.158	3.6	4.0
D	0.047	0.127	1.2	3.2
E	0.75		19.1	
F	0.038	0.042	0.97	1.1
G	0.23	0.27	5.8	6.9



ELECTRICAL RATINGS

MAXIMUM FORWARD CURRENT
SINGLE PHASE FULL WAVE @ 55° C Io AMPS — 6.0 AMPS

MAXIMUM SINGLE CYCLE SURGE CURRENT — 200 AMPS

MAXIMUM FORWARD VOLTAGE DROP @ 25° C
Io AMPS (FULL WAVE) — 6.0
V VOLTS (PER SECTION) — 1.0

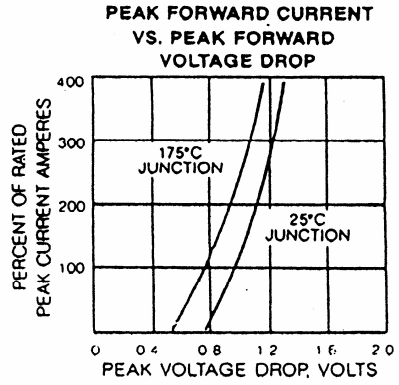
MAXIMUM REVERSE CURRENT @ PIV @ 25° C — 10 uA

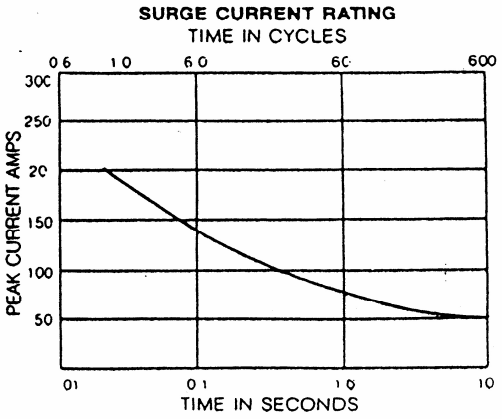
PART NUMBER	PIV
B191-5-1	50
B191-10-1	100
B191-20-1	200
B191-30-1	300
B191-40-1	400
B191-50-1	500
B191-60-1	600
B191-70-1	700
B191-80-1	800
B191-100-1	1000
B191-120-1	1200

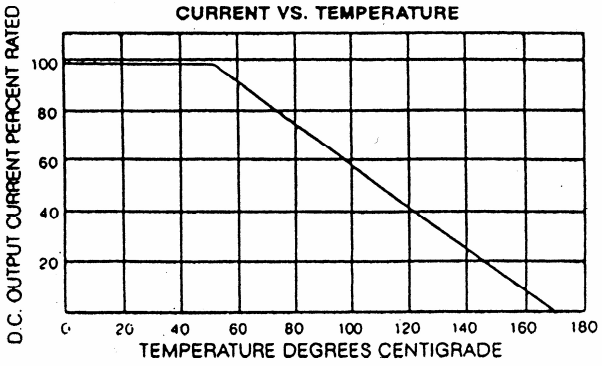
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Medium Current Curves







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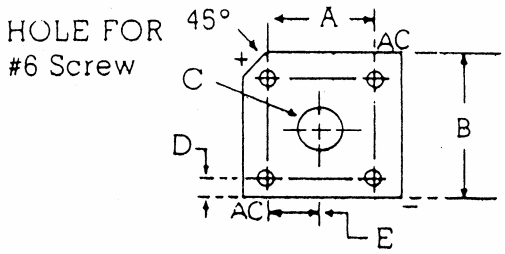
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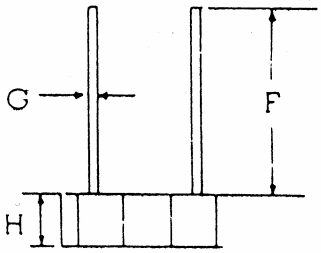
SERIES FBR600

Silicon Fast Recovery Bridge Rectifier

	INCHES		MILLIMETER	
DIM.	MIN.	MAX.	MIN.	MAX.
A	0.405	0.445	10.5	11.3
B	0.58	0.62	14.7	15.75
C	0.142	0.158	3.6	4.0
D	0.047	0.127	1.2	3.2
E	0.75		19.1	
F	0.038	0.042	0.97	1.1
G	0.23	0.27	5.8	6.9



BR600
(PLASTIC)



PART NUMBER	MAX. AVG. RECTIFIED CURRENT I_f (AV) @ TaR LOAD		INPUT VOLTAGE RECOMMENDED Vrms	PIV Vrrm	MAX. FORWARD PEAK SURGE CURRENT Ifsm	MAX. FORWARD VOLTAGE @ Ta = 25° C Vf @ If (AV)		MAX. REVERSE CURRENT @ Ta = 25° C Ir	Trr
	(A)	(° C)	(V)	(V)	(A)	(V)	(A)	(uA)	(nS)
FBR600	6.0	50	20	50	150	1.3	3.0	10	150
FBR601	6.0	50	40	100	150	1.3	3.0	10	150
FBR602	6.2	50	80	200	150	1.3	3.0	10	150
FBR604	6.2	50	125	400	150	1.3	3.0	10	150
FBR606	6.2	50	250	600	150	1.3	3.0	10	250
FBR608	6.2	50	380	800	150	1.3	3.0	10	500
FBR610	6.2	50	440	1000	150	1.3	3.0	10	500

THE PLASTIC MATERIAL CARRIES U/L RECOGNITION 94V-0

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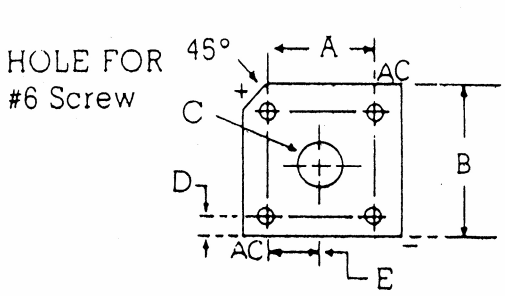
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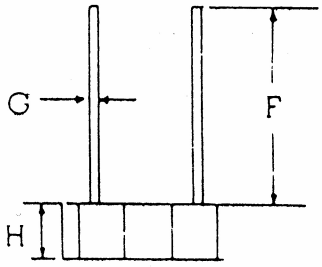
SERIES FBR1000

Silicon Fast Recovery Bridge Rectifier

	INCHES		MILLIMETER	
DIM.	MIN.	MAX.	MIN.	MAX.
A	0.48	0.52	12.2	13.2
B	0.73	0.77	18.54	19.56
C	0.142	0.158	3.6	4.0
D	0.21	0.29	5.33	7.37
E	0.21	0.29	5.33	7.37
F	0.75		19.1	
G	0.048	0.052	1.2	1.3
H	0.25	0.30	6.35	7.6



BR1000
(PLASTIC)



PART NUMBER	MAX. AVG. RECTIFIED CURRENT I_f (AV) @ TaR LOAD		INPUT VOLTAGE RECOMMENDED Vrms	PIV Vrrm	MAX. FORWARD PEAK SURGE CURRENT Ifsm	MAX. FORWARD VOLTAGE @ Ta = 25° C Vf @ If (AV)		MAX. REVERSE CURRENT @ Ta = 25° C Ir	Trr
	(A)	(° C)	(V)	(V)	(A)	(V)	(A)	(uA)	(nS)
FBR1000	10	55	20	50	250	1.3	6.0	10	150
FBR1001	10	55	40	100	250	1.3	6.0	10	150
FBR1002	10	55	80	200	250	1.3	6.0	10	150
FBR1004	10	55	125	400	250	1.3	6.0	10	150
FBR1006	10	55	250	600	250	1.3	6.0	10	250
FBR1008	10	55	380	800	250	1.3	6.0	10	500
FBR1010	10	55	440	1000	250	1.3	6.0	10	500

THE PLASTIC MATERIAL CARRIES U/L RECOGNITION 94V-0

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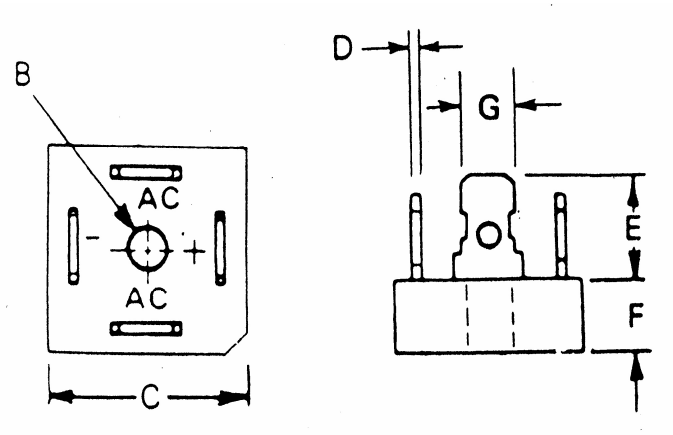
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SERIES B901

Silicon Bridge Rectifier

DIM	INCHES	MILLIMETERS
B	.140 - .160 DIA.	3.5 – 4.1 DIA.
C	.800 MAX	20.4 MAX
D	.032	.81
E	.500 MAX	12.7 MAX
F	.300 MAX	7.62 MAX
G	.250	6.35



NOTE 1. A THIN FILM OF SILICON THERMAL COMPOUND IS RECOMMENDED BETWEEN THE BRIDGE CASE AND MOUNTING SURFACE FOR IMPROVED THERMAL CONDUCTION

PART NUMBER	PIV/LEG
B901-5	50
B901-10	100
B901-20	200
B901-40	400
B901-60	600
B901-80	800
B901-100	1000
B901-120	1200

ELECTRICAL RATINGS

AVERAGE FORWARD CURRENT @ 50^{O} C (AMPS)	8.0 AMPS
MAXIMUM SINGLE CYCLE SURGE CURRENT (AMPS)	250 AMPS
MAXIMUM FORWARD VOLTAGE DROP @ If = 3 AMPS/SECTION (VOLTS)	1.0 VOLTS
MAXIMUM REVERSE CURRENT @ PIV @ 25^{O} C	5.0 uA
OPERATING TEMPERATURE RANGE (C)	-55 TO 150 CASE

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SERIES BR800/1000

Silicon Bridge Rectifiers 8 Amps to 10 Amps

The plastic material carries U/L recognition 94 V-O

TYPE	MAXIMUM AVERAGE RECT. CURRENT If (AV) @ T_AR LOAD		INPUT VOLTAGE RECOMD. Vrms	PEAK INVERSE VOLTAGE Vrrm	MAXIMUM FWD PEAK SURGE CURRENT Ifsm	MAXIMUM FWD VOLTAGE @ $T_A = 25^o$ C Vf @ If (AV)		MAXIMUM REVERSE CURRENT @ $T_A = 25^o$ C Ir
	(A)	(C)	(V)	(V)	(A)	(V)	(A)	(uA)

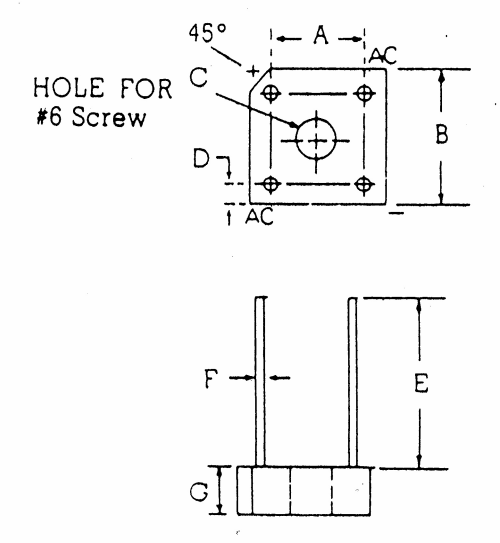
BR800 SERIES 8 Amps Figure 1

BR800	8.0	50	20	50	300	1.0	5.0	10
BR801	8.0	50	40	100	300	1.0	5.0	10
BR802	8.0	50	80	200	300	1.0	5.0	10
BR804	8.0	50	125	400	300	1.0	5.0	10
BR806	8.0	50	250	600	300	1.0	5.0	10
BR808	8.0	50	380	800	300	1.0	5.0	10
BR810	8.0	50	440	1000	300	1.0	5.0	10

BR1000 Series 10 Amps Figure 1

BR1000	10	55	20	50	300	1.0	6.0	10
BR1001	10	55	40	100	300	1.0	6.0	10
BR1002	10	55	80	200	300	1.0	6.0	10
BR1004	10	55	125	400	300	1.0	6.0	10
BR1006	10	55	250	600	300	1.0	6.0	10
BR1008	10	55	380	800	300	1.0	6.0	10
BR1010	10	55	440	1000	300	1.0	6.0	10

	INCHES		MILLIMETERS	
DIM	MIN.	MAX.	MIN.	MAX
A	0.48	0.52	12.2	13.2
B	0.73	0.77	18.54	19.56
C	0.142	0.158	3.6	4.0
D	0.21	0.29	5.33	7.37
E	0.21	0.29	5.33	7.37
F	0.75		19.1	
G	0.048	0.052	1.2	1.3
H	0.25	0.30	6.35	7.6



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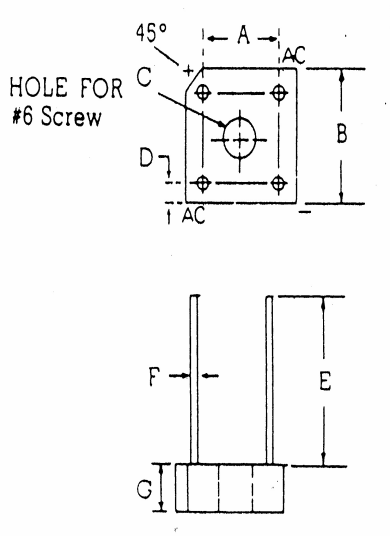
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SERIES B610

Silicon Bridge Rectifier

	INCHES		MILLIMETERS	
DIM.	MIN.	MAX.	MIN.	MAX.
A	0.405	0.445	10.	11.3
B	0.53	0.59	13.49	15.08
C	0.142	0.158	3.6	4.0
D	0.047	0.127	1.2	3.2
E	0.75		19.1	
F	0.048	0.052	1.2	1.3
G	0.23	0.27	5.8	6.9



PART NUMBER	PIV/LEG
B610-5	50
B610-10	100
B610-20	200
B610-30	300
B610-40	400
B610-50	500
B610-60	600
B610-70	700
B610-80	800
B610-100	1000
B610-120	1200

ELECTRICAL RATINGS

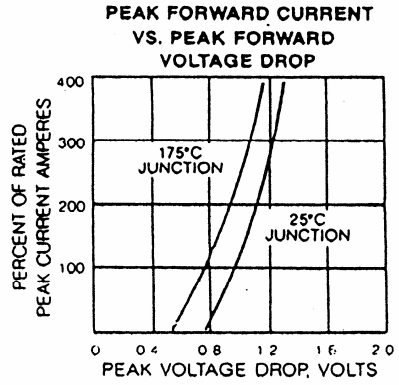
MAXIMUM FORWARD CURRENT SINGLE PHASE, FULL WAVE @ 55^{O} C Io AMPS	10.0 AMPS **
MAXIMUM SINGLE CYCLE SURGE CURRENT (AMPS)	200 AMPS
MAXIMUM FORWARD VOLTAGE DROP @ 25^{O} C	
Io AMPS (FULL WAVE)	6.0
V VOLTS (PER SECTION)	1.0
MAXIMUM REVERSE CURRENT @ PIV @ 25^{O} C	10.0 uA

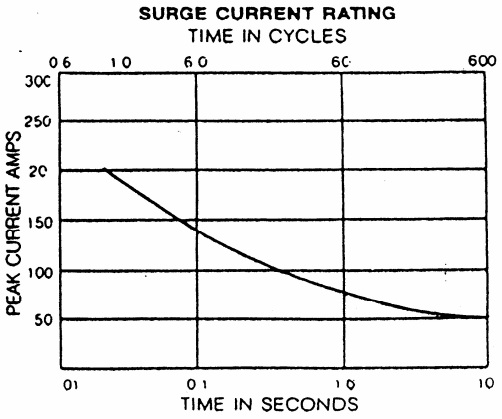
** CURRENT RATING WHEN HEAT SINKED

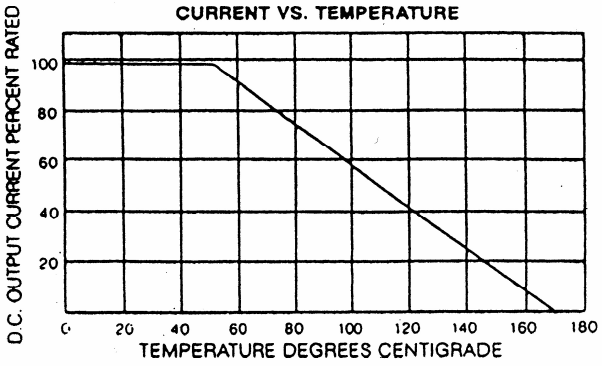
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Medium Current Curves







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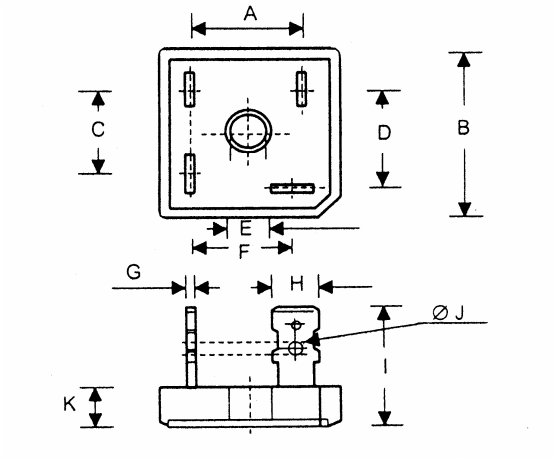
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SERIES B526

Silicon Bridge Rectifier

	INCHES		MILLIMETERS	
DIM.	MIN.	MAX.	MIN.	MAX.
A	0.688	0.728	17.5	18.5
B	1.12	1.13	28.4	28.7
C	0.53	0.57	13.5	14.5
D	0.618	0.658	15.7	16.7
E	0.20	0.21	5.1	5.3
F	0618	0.658	15.7	16.7
G	0.030	0.134	0.76	0.86
H	0.248	0.252	6.3	6.4
I	0.826	0.905	21.0	23.0
J	0.09	0.10	2.4	2.6
K	0.28	0.31	7.30	7.90



PART NUMBER	PIV/LEG	PART NUMBER	PIV/LEG
B526-5	50	B526-60	600
B526-10	100	B526-70	700
B526-20	200	B526-80	800
B526-30	300	B526-100	1000
B526-40	400	B526-120	1200
B526-50	500		

ELECTRICAL RATINGS

MAXIMUM FORWARD CURRENT SINGLE PHASE, FULL WAVE @ 50^{O} C	15.0 AMPS
MAXIMUM SINGLE CYCLE SURGE CURRENT (AMPS)	300 AMPS
MAXIMUM FORWARD VOLTAGE DROP @ 25^{O} C	
Io AMPS (FULL WAVE)	7.5
V VOLTS (PER SECTION)	1.1
MAXIMUM REVERSE CURRENT @ PIV @ 25^{O} C	10.0 uA
THERMAL RESISTANCE, JUNCTION TO CASE @ RATED LOAD	1.85^{O} C ^{O} C/W
MAXIMUM JUNCTION TEMPERATURE	175^{O} C
RECOGNIZED UNDER UL FILE # E57830	

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FIG. 1 TYPICAL FORWARD CURRENT DERATING CURVE

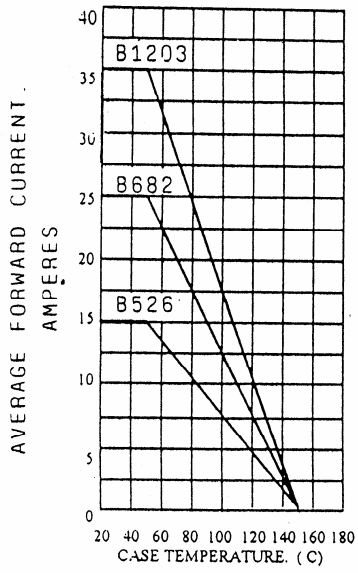


FIG. 2 MAXIMUM NON-REPETITIVE SURGE CURRENT

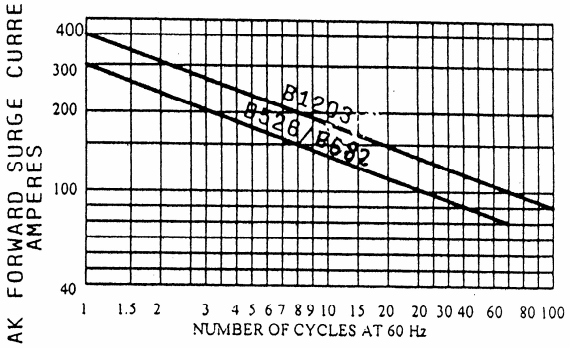


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

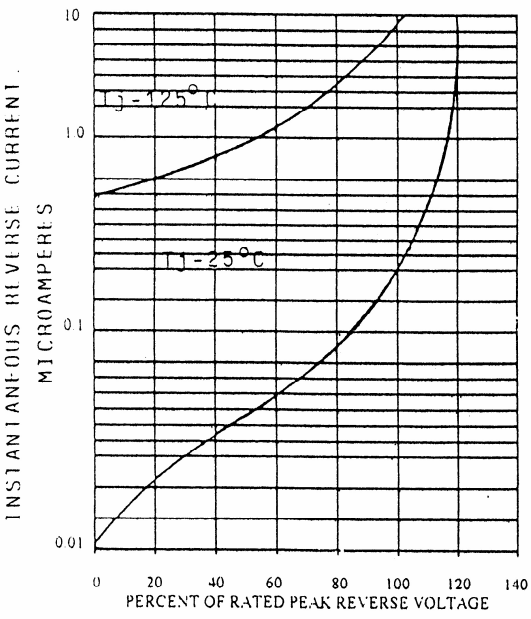
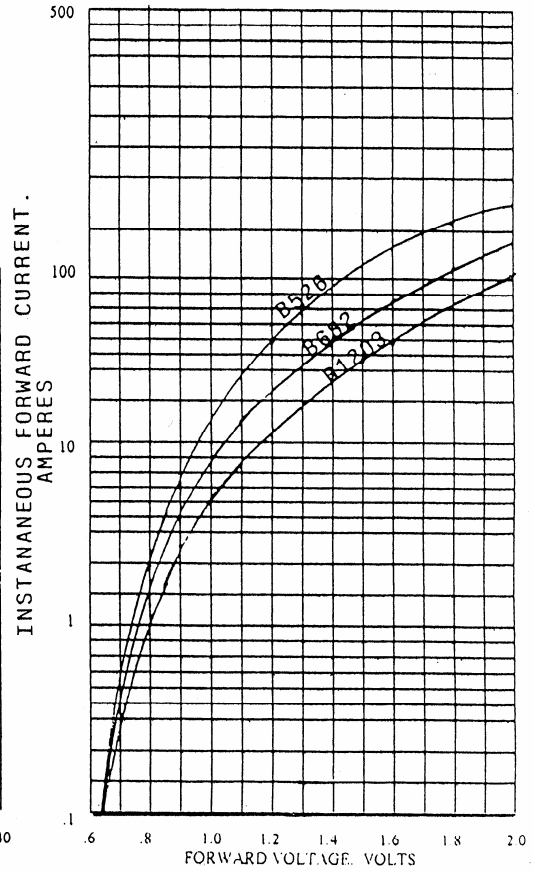


FIG. 4 TYPICAL FORWARD CHARACTERISTICS



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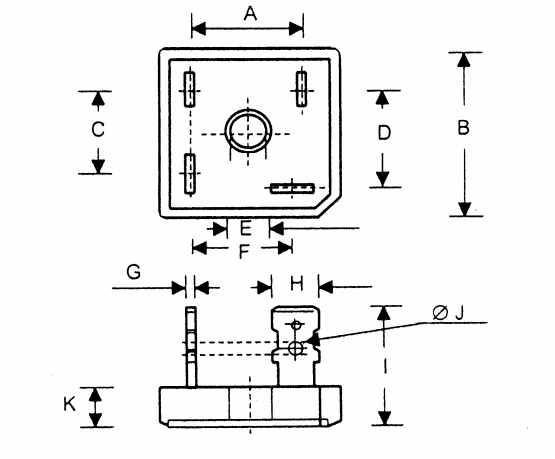
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SERIES B682

Silicon Bridge Rectifier

	INCHES		MILLIMETERS	
DIM.	MIN.	MAX.	MIN.	MAX.
A	0.688	0.728	17.5	18.5
B	1.12	1.13	28.4	28.7
C	0.53	0.57	13.5	14.5
D	0.618	0.658	15.7	16.7
E	0.20	0.21	5.1	5.3
F	0618	0.658	15.7	16.7
G	0.030	0.134	0.76	0.86
H	0.248	0.252	6.3	6.4
I	0.826	0.905	21.0	23.0
J	0.09	0.10	2.4	2.6
K	0.28	0.31	7.30	7.90



PART NUMBER	PIV/LEG	PART NUMBER	PIV/LEG
B682-5	50	B682-60	600
B682-10	100	B682-70	700
B682-20	200	B682-80	800
B682-30	300	B682-100	1000
B682-40	400	B682-120	1200
B682-50	500		

ELECTRICAL RATINGS

MAXIMUM FORWARD CURRENT SINGLE PHASE, FULL WAVE @ 50^{O} C	25.0 AMPS
MAXIMUM SINGLE CYCLE SURGE CURRENT (AMPS)	300 AMPS
MAXIMUM FORWARD VOLTAGE DROP @ 25^{O} C	
Io AMPS (FULL WAVE)	12.5
V VOLTS (PER SECTION)	1.1
MAXIMUM REVERSE CURRENT @ PIV @ 25^{O} C	10.0 uA
THERMAL RESISTANCE, JUNCTION TO CASE @ RATED LOAD	1.85^{O} C ^{O} C/W
MAXIMUM JUNCTION TEMPERATURE	175^{O} C

RECOGNIZED UNDER UL FILE # E57830

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FIG. 1 TYPICAL FORWARD CURRENT DERATING CURVE

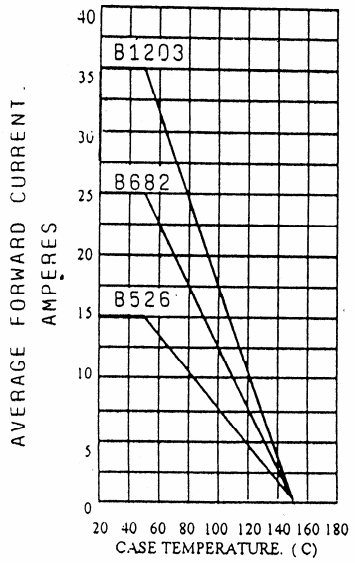


FIG. 2 MAXIMUM NON-REPETITIVE SURGE CURRENT

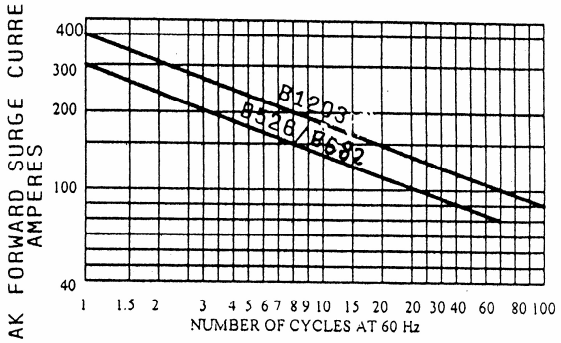


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

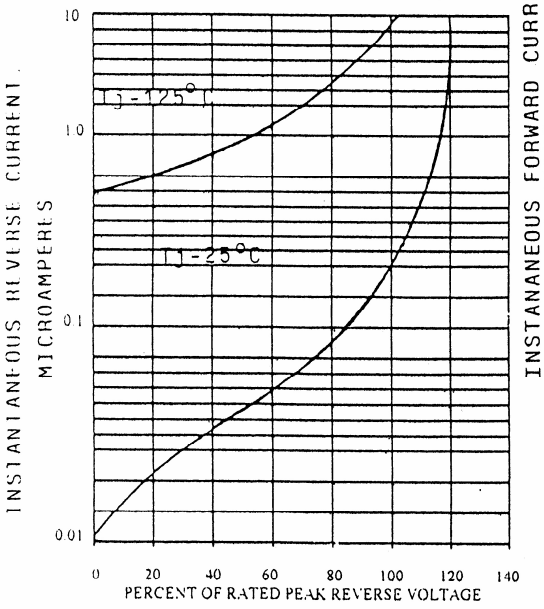
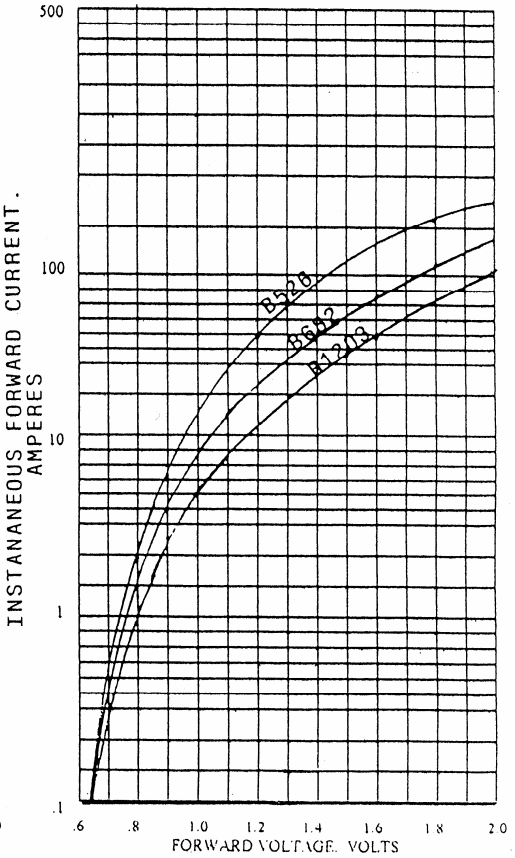


FIG. 4 TYPICAL FORWARD CHARACTERISTICS



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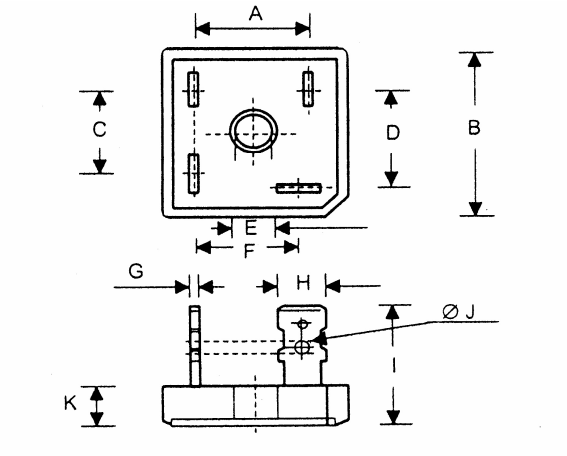
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SERIES B1203

Silicon Bridge Rectifier

	INCHES		MILLIMETERS	
DIM.	MIN.	MAX.	MIN.	MAX.
A	0.688	0.728	17.5	18.5
B	1.12	1.13	28.4	28.7
C	0.53	0.57	13.5	14.5
D	0.618	0.658	15.7	16.7
E	0.20	0.21	5.1	5.3
F	0618	0.658	15.7	16.7
G	0.030	0.134	0.76	0.86
H	0.248	0.252	6.3	6.4
I	0.826	0.905	21.0	23.0
J	0.09	0.10	2.4	2.6
K	0.28	0.31	7.30	7.90



PART NUMBER	PIV/LEG	PART NUMBER	PIV/LEG
B1203-5	50	B1203-60	600
B1203-10	100	B1203-70	700
B1203-20	200	B1203-80	800
B1203-30	300	B1203-100	1000
B1203-40	400	B1203-120	1200
B1203-50	500		

ELECTRICAL RATINGS

MAXIMUM FORWARD CURRENT SINGLE PHASE, FULL WAVE @ 50^{O} C	35.0 AMPS
MAXIMUM SINGLE CYCLE SURGE CURRENT (AMPS)	400 AMPS
MAXIMUM FORWARD VOLTAGE DROP @ 25^{O} C	
Io AMPS (FULL WAVE)	17.5
V VOLTS (PER SECTION)	1.1
MAXIMUM REVERSE CURRENT @ PIV @ 25^{O} C	10.0 uA
THERMAL RESISTANCE, JUNCTION TO CASE @ RATED LOAD	1.85^{O} C ^{O} C/W
MAXIMUM JUNCTION TEMPERATURE	175^{O} C
RECOGNIZED UNDER UL FILE # E57830	

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FIG. 1 TYPICAL FORWARD CURRENT DERATING CURVE

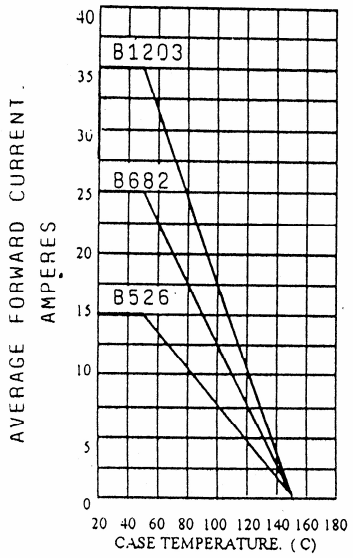


FIG. 2 MAXIMUM NON-REPETITIVE SURGE CURRENT

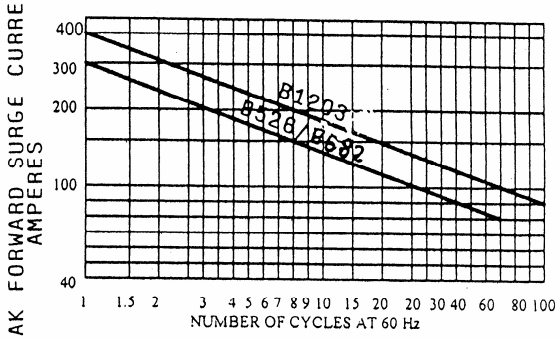


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

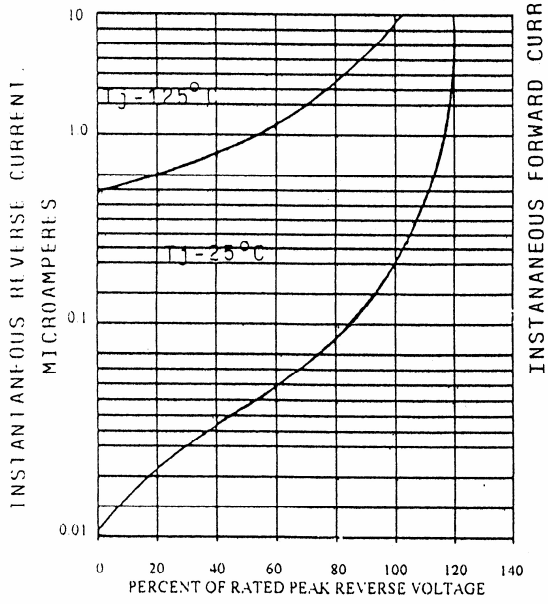
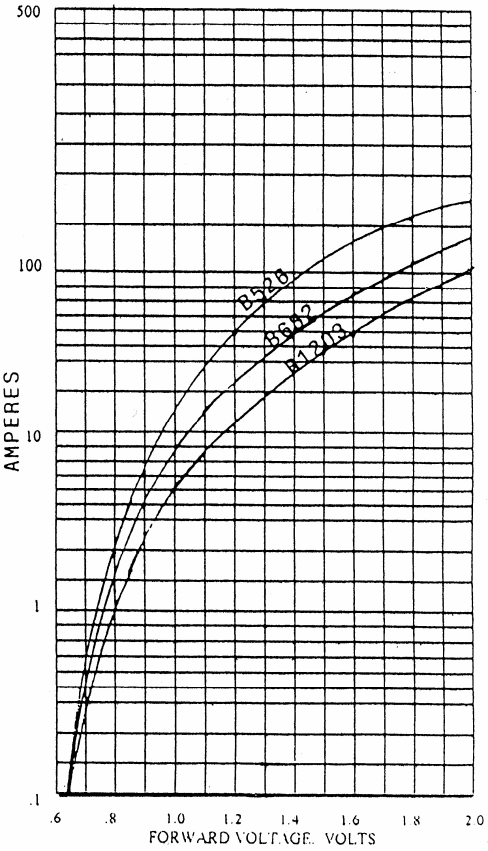


FIG. 4 TYPICAL FORWARD CHARACTERISTICS



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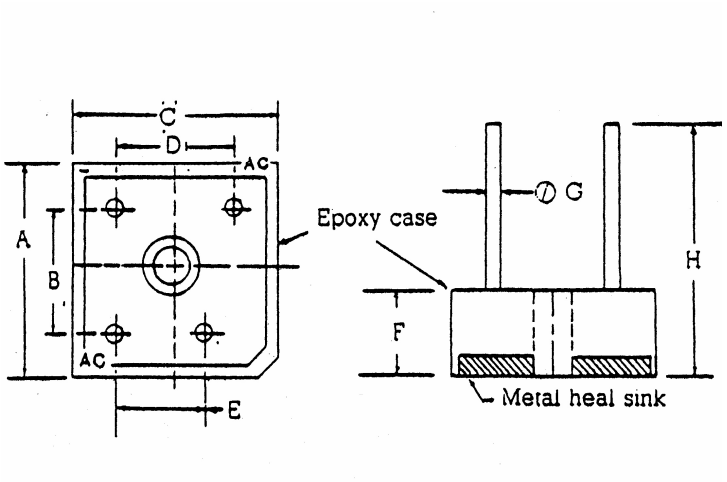
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SERIES B1203 with Wire Leads 35 AMP

SILICON BRIDGE RECTIFIER

(PLASTIC CASE WITH METAL HEAT SINK)

	INCHES		MILLIMETERS	
DIM.	MIN.	MAX.	MIN.	MAX
A	1.12	1.13	28.4	28.7
B	0.692	0.732	17.6	18.6
C	1.12	1.13	28.4	28.7
D	0.692	0.732	17.6	18.6
E	0.43	0.47	10.9	11.9
F	0.28	0.31	7.3	7.9
G	0.038	0.042	0.97	1.07
H	1.2		30.5	



PART NUMBER	MAX AVG. RECT CURRENT If (AV) @ TAR LOAD		INPUT VOLTAGE RECOMMENDED Vrms	PIV Vrrm	MAX. FORWARD PEAK SURGE CURRENT Ifsm	MAX. FORWARD VOLTAGE @ Ta = 25° C Ir		MAX. REV CURRENT @ Ta = 25° C Ir
	(A)	(C)	(V)	(V)	(A)	(V)	(A)	(uA)
B1203-5-1-W	35	55	20	50	400	1.1	17.5	10
B1203-10-1W	35	55	40	100	400	1.1	17.5	10
B1203-20-1W	35	55	80	200	400	1.1	17.5	10
B1203-40-1W	35	55	125	400	400	1.1	17.5	10
B1203-60-1W	35	55	250	600	400	1.1	17.5	10
B1203-80-1W	35	55	380	800	400	1.1	17.5	10
B1203-100-1W	35	55	440	1000	400	1.1	17.5	10

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FIG. 1 TYPICAL FORWARD CURRENT DERATING CURVE

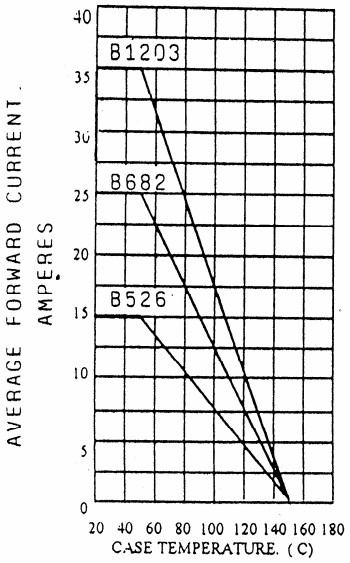


FIG. 2 MAXIMUM NON-REPETITIVE SURGE CURRENT

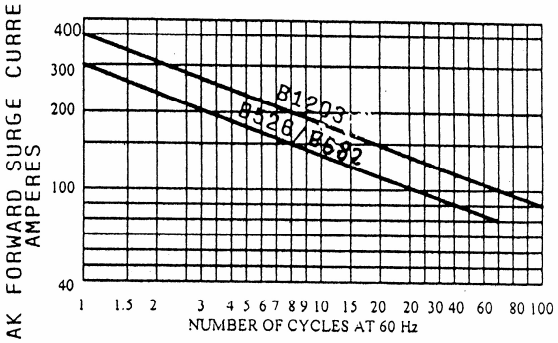


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

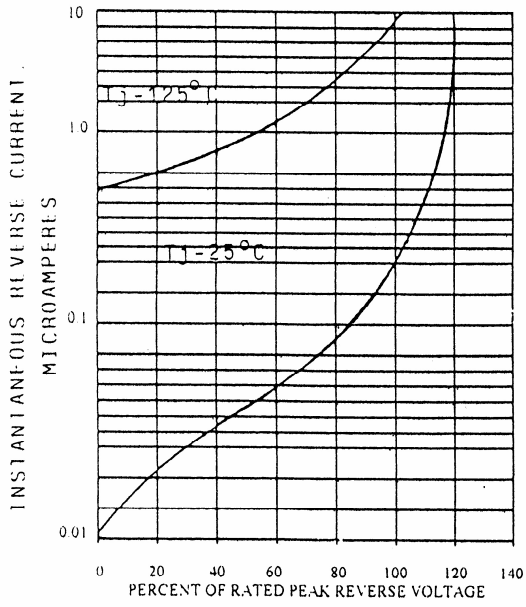
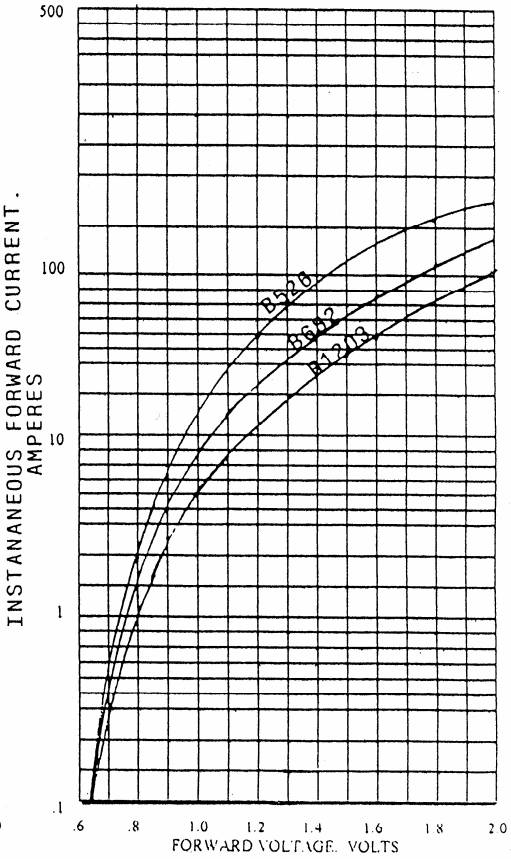


FIG. 4 TYPICAL FORWARD CHARACTERISTICS



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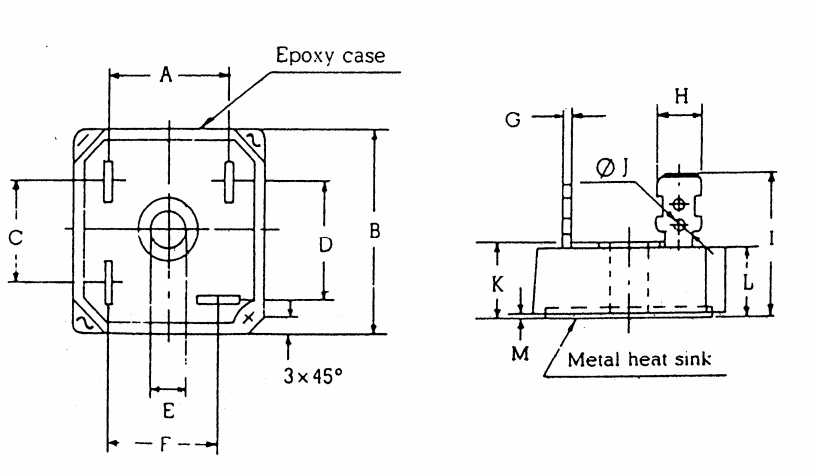
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SERIES BR1203

SILICON FAST RECOVERY BRIDGE RECTIFIER

(PLASTIC CASE WITH METAL HEAT SINK)

	INCHES		MILLIMETERS	
DIM.	MIN.	MAX.	MIN.	MAX
A	0.688	0.728	17.5	18.5
B	1.12	1.13	28.4	28.7
C	0.53	0.57	13.5	14.5
D	0.618	0.658	15.7	16.7
E	0.20	0.21	5.1	5.3
F	0.618	0.658	15.7	16.7
G	0.028	0.032	0.71	0.84
H	0.248	0.252	6.3	6.40
I	0.826	0.905	21.0	23.0
J	0.09	0.10	2.4	2.6
K	0.28	0.31	7.30	7.90
L	0.28	0.31	7.30	7.90
M	0.004	0.008	0.1	0.2



PART NUMBER	MAX AVG. RECT CURRENT If (AV) @ TAR LOAD		INPUT VOLTAGE RECOMMENDED Vrms	PIV Vrrm	MAX. FORWARD PEAK SURGE CURRENT Ifsm	MAX. FORWARD VOLTAGE @ Ta = 25° C Ir		MAX. REV CURRENT @ Ta = 25° C Ir	MAX. REVERSE RECOVERY TIME Trr
	(A)	(C)	(V)	(V)	(A)	(V)	(A)	(uA)	(nS)
BR1203-5-1	35	55	20	50	400	1.3	17.5	10	150
BR1203-10-1	35	55	40	100	400	1.3	17.5	10	150
BR1203-20-1	35	55	80	200	400	1.3	17.5	10	150
BR1203-40-1	35	55	125	400	400	1.3	17.5	10	150
BR1203-60-1	35	55	250	600	400	1.3	17.5	10	250
BR1203-80-1	35	55	380	800	400	1.3	17.5	10	500
BR1203-100-1	35	55	440	1000	400	1.3	17.5	10	500

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FIG. 1 TYPICAL FORWARD CURRENT DERATING CURVE

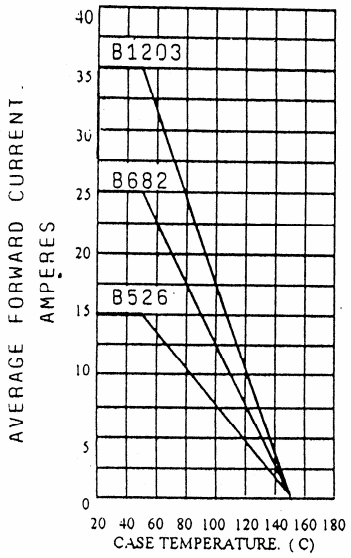


FIG. 2 MAXIMUM NON-REPETITIVE SURGE CURRENT

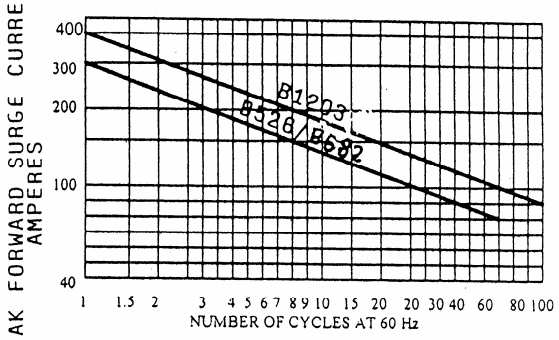


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

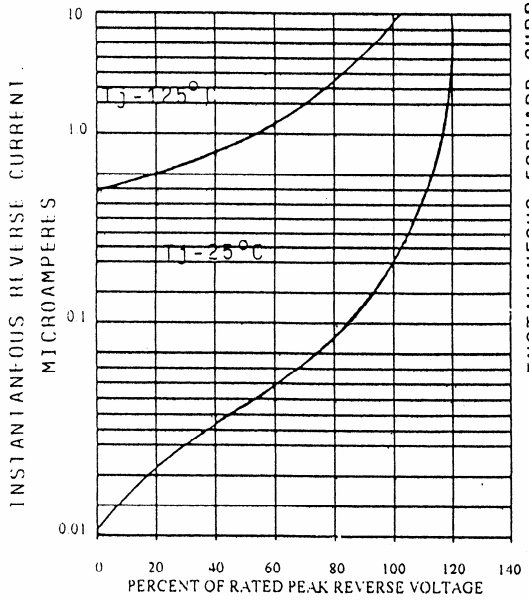
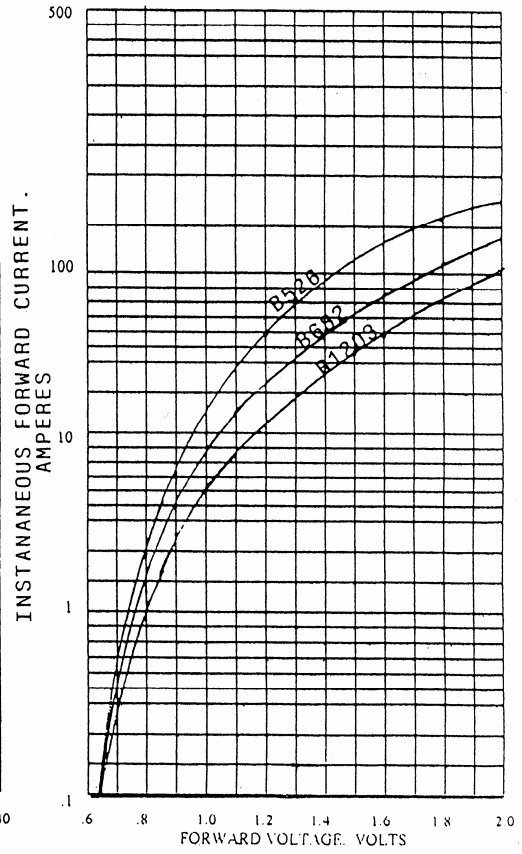


FIG. 4 TYPICAL FORWARD CHARACTERISTICS



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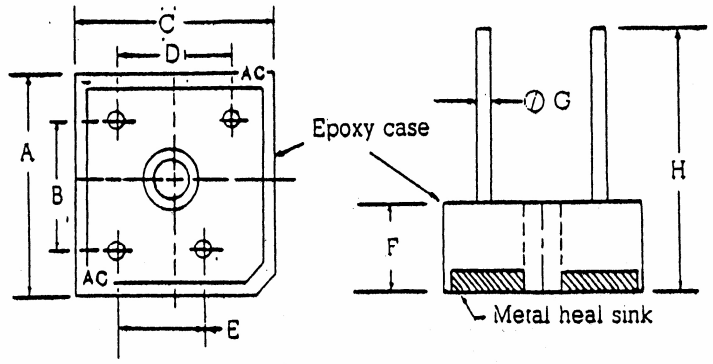
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SERIES BR1203 with Wire Leads 35 AMP
SILICON FAST RECOVERY BRIDGE RECTIFIER

(PLASTIC CASE WITH METAL HEAT SINK)

	INCHES		MILLIMETERS	
DIM.	MIN.	MAX.	MIN.	MAX
A	1.12	1.13	28.4	28.7
B	0.692	0.732	17.6	18.6
C	1.12	1.13	28.4	28.7
D	0.692	0.732	17.6	18.6
E	0.43	0.47	10.9	11.9
F	0.28	0.31	7.3	7.9
G	0.038	0.042	0.97	1.07
H	1.2		30.5	



PART NUMBER	MAX AVG. RECT CURRENT If (AV) @ TAR LOAD		INPUT VOLTAGE RECOMMENDED Vrms	PIV Vrrm	MAX. FORWARD PEAK SURGE CURRENT Ifsm	MAX. FORWARD VOLTAGE @ Ta = 25° C Ir		MAX. REV CURRENT @ Ta = 25° C Ir	MAX. REVERSE RECOVERY TIME Trr
	(A)	(C)	(V)	(V)	(A)	(V)	(A)	(uA)	(nS)
BR1203-5-1-W	35	55	20	50	400	1.3	17.5	10	150
BR1203-10-1W	35	55	40	100	400	1.3	17.5	10	150
BR1203-20-1W	35	55	80	200	400	1.3	17.5	10	150
BR1203-40-1W	35	55	125	400	400	1.3	17.5	10	150
BR1203-60-1W	35	55	250	600	400	1.3	17.5	10	250
BR1203-80-1W	35	55	380	800	400	1.3	17.5	10	500
BR1203-100-1W	35	55	440	1000	400	1.3	17.5	10	500

THE PLASTIC MATERIAL CARRIES U/L RECOGNITION 94 V-O

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FIG. 1 TYPICAL FORWARD CURRENT DERATING CURVE

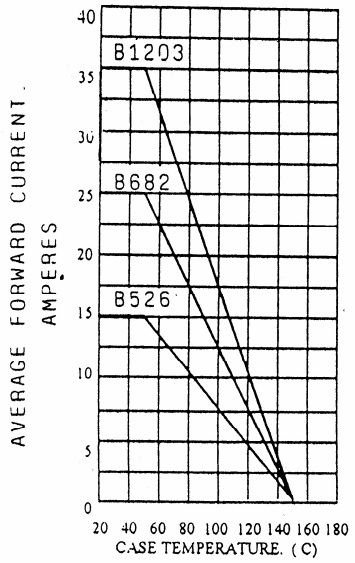


FIG. 2 MAXIMUM NON-REPETITIVE SURGE CURRENT

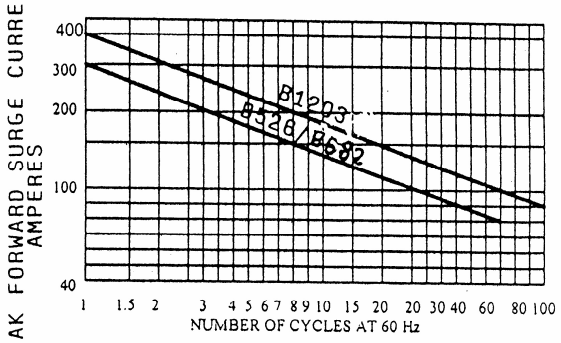


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

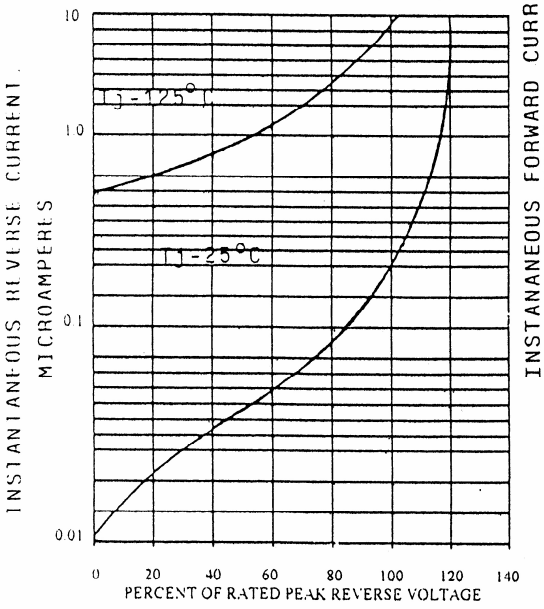
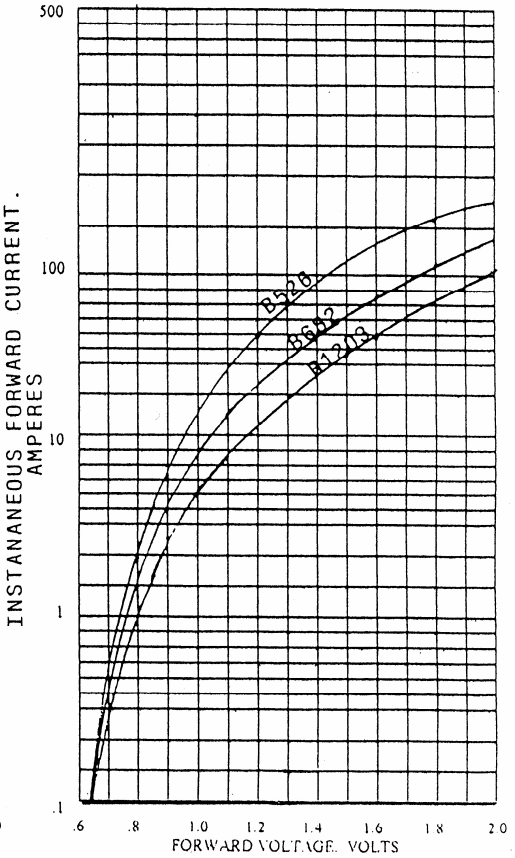


FIG. 4 TYPICAL FORWARD CHARACTERISTICS



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SERIES BR5000

Silicon Bridge Rectifiers 50 Amps

The plastic material carries U/L recognition 94 V-O

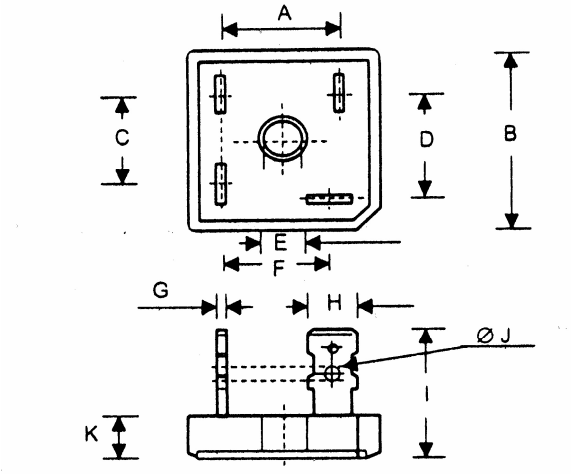
TYPE	MAXIMUM AVERAGE RECT. CURRENT If (AV) @ T_AR		INPUT VOLTAGE RECOMD. Vrms	PEAK INVERSE VOLTAGE Vrrm	MAXIMUM FWD PEAK SURGE CURRENT Ifsm	MAXIMUM FWD VOLTAGE @ T_A = 25° C Vf @ If (AV)		MAXIMUM REVERSE CURRENT @ T_A = 25° C Ir
	(A)	(C)	(V)	(V)	(A)	(V)	(A)	(uA)

BR5000 SERIES 50 Amps Figure 1

BR5000	50	55	20	50	400	1.1	25	10
BR5001	50	55	40	100	400	1.1	25	10
BR5002	50	55	80	200	400	1.1	25	10
BR5004	50	55	125	400	400	1.1	25	10
BR5006	50	55	250	600	400	1.1	25	10
BR5008	50	55	380	800	400	1.1	25	10
BR5010	50	55	440	1000	400	1.1	25	10

(PLASTIC CASE WITH METAL HEAK SINK)

	INCHES		MILLIMETERS	
DIM	MIN.	MAX.	MIN.	MAX
A	0.688	0.728	17.5	18.5
B	1.12	1.13	28.4	28.7
C	0.53	0.57	13.5	14.5
D	0.618	0.658	15.7	16.7
E	0.20	0.21	5.1	5.3
F	0.618	0.658	15.7	16.7
G	0.028	0.032	0.71	0.84
H	0.248	0.252	6.3	6.40
I	0.826	0.905	21.0	23.0
J	0.09	0.10	2.4	2.6
K	0.28	0.31	7.30	7.90
L	0.28	0.31	7.30	7.90
M	0.004	0.008	0.1	0.2



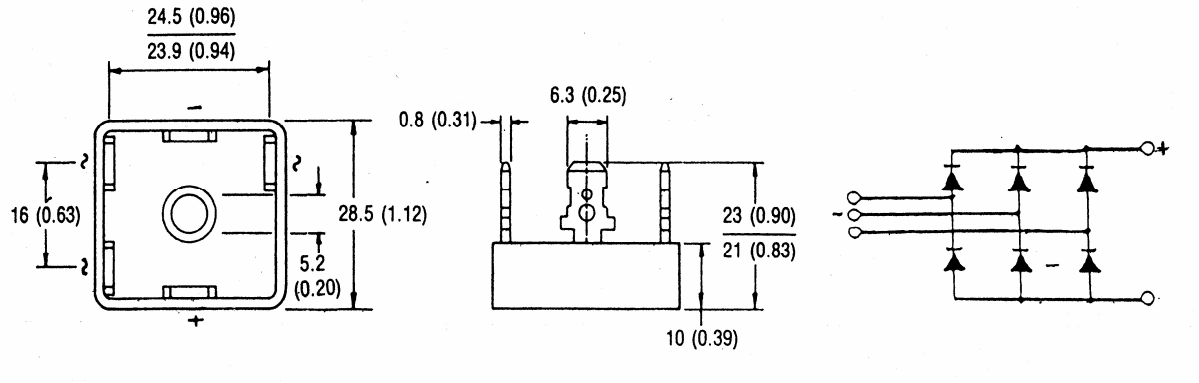
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SERIES 3PB25

Three Phase 25 Amp Silicon Bridge Rectifier



PART NUMBER	3PB2505	3PB2510	3PB2520	3PB2540	3PB2560	3PB2580	3PB25100	3PB25120
PIV/LEG	50 (V)	100 (V)	200 (V)	400 (V)	600 (V)	800 (V)	1000 (V)	1200 (V)

ELECTRICAL RATINGS

MAX. DC OUTPUT CURRENT @ 60^{O} C CASE	25 AMPS DC
MAX. PEAK SINGLE CYCLE NON-REPETITIVE FORWARD CURRENT @ 8.3 mSec	375 AMPS
MAX. FORWARD VOLTAGE DROP @ If = 40 AMPS/LEG, Tj = 25^{O} C	1.26 VOLTS
MAX. I^2 t FUSING (t = 8.3 mSec) @ Tj = 150^{O} C	580 AMPS
THERMAL RESISTANCE (JUNCTION TO CASE)	1.4 K/W
MAX. JUNCTION TEMPERATURE RANGE	-40 TO +150^{O} C
MAX. DC REVERSE CURRENT/JUNCTION @ 25^{O} C	100 u AMPS
RMS ISOLATION VOLTAGE, TERMINAL TO BASE	2500 VOLTS

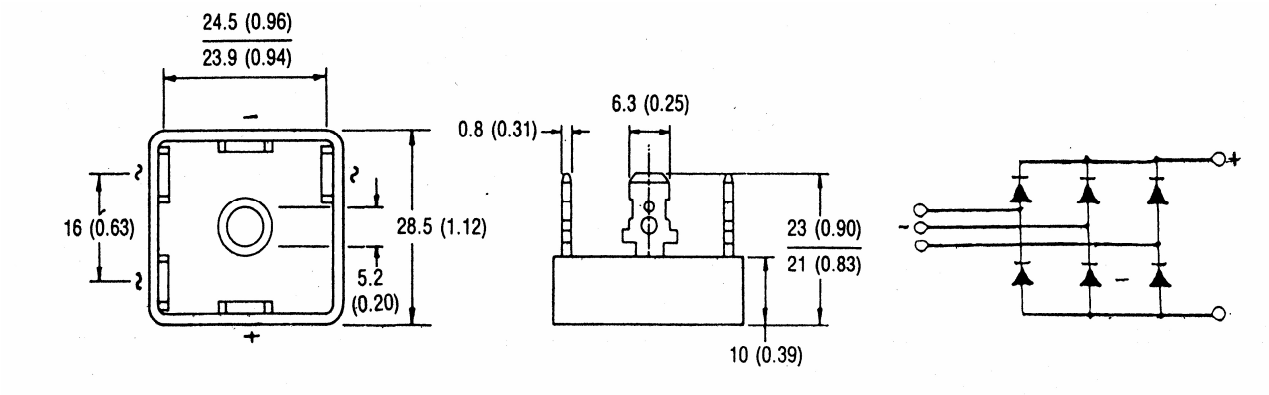
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SERIES 3PB35

Three Phase 35 Amp Silicon Bridge Rectifier



PART NUMBER	3PB3505	3PB3510	3PB3520	3PB3540	3PB3560	3PB3580	3PB35100	3PB35120
PIV/LEG	50 (V)	100 (V)	200 (V)	400 (V)	600 (V)	800 (V)	1000 (V)	1200 (V)

ELECTRICAL RATINGS

MAX. DC OUTPUT CURRENT @ 60^{O} C CASE	35 AMPS DC
MAX. PEAK SINGLE CYCLE NON-REPETITIVE FORWARD CURRENT @ 8.3 mSec	500 AMPS
MAX. FORWARD VOLTAGE DROP @ If = 40 AMPS/LEG, Tj = 25^{O} C	1.2 VOLTS
MAX. I^2 t FUSING (t = 8.3 mSec) @ Tj = 150^{O} C	1,000 AMPS
THERMAL RESISTANCE (JUNCTION TO CASE)	1.15 K/W
MAX. JUNCTION TEMPERATURE RANGE	-40 TO +150^{O} C
MAX. DC REVERSE CURRENT/JUNCTION @ 25^{O} C	100 u AMPS
RMS ISOLATION VOLTAGE, TERMINAL TO BASE	2500 VOLTS

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PLUG IN TUBE TYPES

Part #	Replaces	PIV Per Section (Volts)	DC Output Current @ 55° C (Amps)	P/N Configuration (Refer to Drawing)	Base Type	Dimensions L Seated Height Maximum	Dimensions D Diameter Maximum
----------	117Z4GT	400	.5	Fig. 12	Octal	2.65	1.25
---------	117Z6GT	600	.5	Fig. 13	Octal	2.65	1.25
---------	OZ46X5	1250	.15	Fig. 13	Octal	2.65	1.25
1N2636	84/, 6Z4	1500	.085	Fig. 11	5 Pin	2.45	1.19
1N2630	6X4, 12X4, 6032, 6202	1500	.085	Fig. 1	Min. 7 Pin	1.75	.87
1N2635	6202, 6X4, 12X4, 6032	1500	.085	Fig. 5	Min. 7 Pin	1.75	.87
1N2490	6202,6X4, 12X4, 6032 6063	1600	.50	Fig. 1	Min. 7 Pin	1.50/1.562	.718/.782
1N2633	OZ4, 5X4, 5Y4, 6AX5 6X5, 6W5, 6ZY5, 5839 5852	1600	.60	Fig. 3	Octal	2.65	1.25
1N1237	OZ4, 5X4, 5Y4, 6AX5, 5U4, 6X5, 6W5, 6ZY5, 5839, 5Z4, 5852, 6AX5, 6087, 6106, 5931, 5AZ4, 5V3	1600	.75	Fig. 3	Octal	2.65	1.25
1N2631	5AU4, 5AW4, 6087, 6106, 5931, 5AZ4, 5T4, 5U4, 5Z4, 5Y3, 5V4, 5W4, 5AV4, 5AX4,6004, 5931	1600	.60	Fig. 2	Octal	2.65	1.25
1N1238	5AU4, 5AW4, 6087, 6106, 5931,5AZ4, 5T4, 5U4, 5Z4, 5Y3, 5V3,5W4, 5AV4, 5AX4, 6004, 5V4	1600	.75	Fig. 2	Octal	2.65	1.25
1N2389	5AU4, 5AW4, 5AZ4, 5T4, 5U4, 5V4, 5W4, 5Y3, 5Z4, 5AX4, 6004, 5V3	1600	.60	Fig. 2	Octal	1.63	1.19

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Part #	Replaces	PIV Per Section (Volts)	DC Output Current @ 55° C (Amps)	P/N Configuration (Refer to Drawing)	Base Type	Dimensions L Seated Height Maximum	Dimensions D Diameter Maximum
1N2634	5Z3, 80,82, 83, 83V	1600	.6	Fig. 4	4 Pin	2.65	1.25
1N1150	5Z3, 80, 82, 83, 83V	1600	.75	Fig. 8	4 Pin	2.65	1.25
1N1150A	5Z3, 80, 82, 83, 83V	1600	.75	Fig. 8	4 Pin	2.65	1.25
1N2632	5R4, 5R4W	2800	.20	Fig. 2	Octal	2.65	1.25
1N1239	5R4, 5R4W	2800	.50	Fig. 2	Octal	2.65	1.25
-------	3B25	4500	.50	Fig. 10	Small 4 Pin	5.75	1.219
1N1262	6AV4, 25W4, 12AX4 6AX4, 60A4, 1204 6864, 17AX4, 6W4, 6V4, 6AV4	4500	.25	Fig. 9	Octal	2.65	1.25
-------	6DE4	5000	.20	Fig. 12	Octal	3.75	1.32
-------	836, 1616	7000	.30	Fig. 10	Small 4 Pin	5.75	1.219
-------	816	8000	.20	Fig. 10	Small 4 Pin	5.75	1.219
-------	217C	8000	.20	Fig. 6	Jumbo 4 Pin	8.05	2.31
B184-10	866, 866A, 866AX, 3B28	10000	.50	Fig. 6	Small 4 Pin	5.75	1.219
1N2637	886, 866A, 3B28	10000	.25	Fig. 6	Small 4 Pin	4.687	1.32

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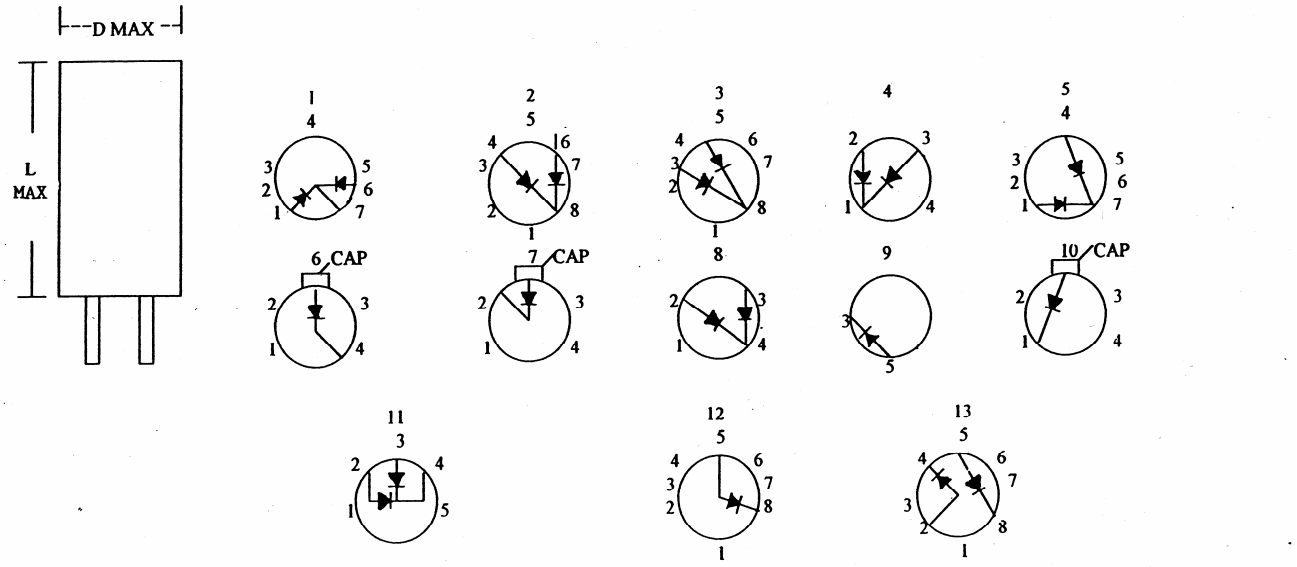
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Part #	Replaces	PIV Per Section (Volts)	DC Output Current @ 55° C (Amps)	P/N Configuration (Refer to Drawing)	Base Type	Dimensions L Seated Height Maximum	Dimensions D Diameter Maximum
B1145-10	872A, 872AX, 4B32	10000	1.25	Fig. 7	Jumbo 4 Pin	8.05	1.687
B370-10	8008, 8008XE	10000	1.50	Fig. 7	Super Jumbo 4 Pin	8.05	2.31
B1145-15	575A	15000	1.75	Fig. 7	Jumbo 4 Pin	8.05	1.687
B704-15	673	15000	1.75	Fig. 7	Super Jumbo 4 Pin	10.81	2.187
B1145-15	7136	15000	2.50	Fig. 7	Jumbo 4 Pin	8.05	1.687
B370-16	4B31	16000	.20	Fig. 7	Super Jumbo 4 Pin	8.05	2.31
B370-20	579B	20000	.05	Fig. 7	Super Jumbo 4 Pin	8.05	2.31
B184-5	2-25	25000	.05	Fig. 10	Small 4 Pin	5.75	1.219
B370-25	7792	25000	1.50	Fig. 7	Super Jumbo 4 Pin	8.05	2.31

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SOLID STATE RECTIFIER PIN LAYOUT



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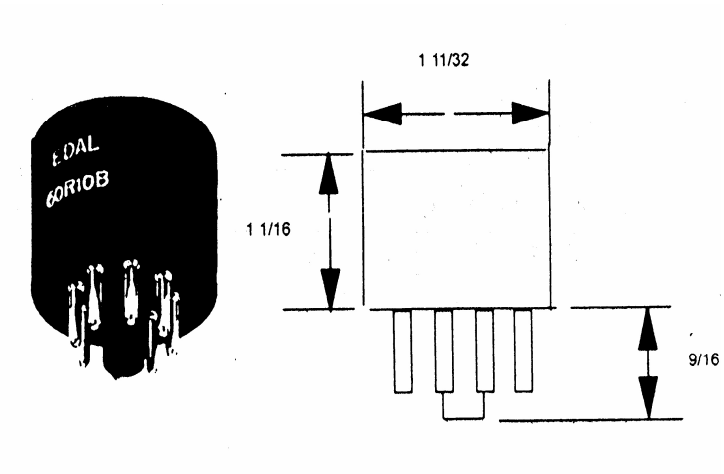
SERIES R

OCTAL SOCKET PLUG-IN SILICON RECTIFIER

In circuits calling for plug-in modules, Edal Series R silicon rectifiers offer compact design and efficient performance. As vacuum tube replacements, greater reliability and longer operating life are assured. Octal socket plug-ins contain double diffused passivated bulk avalanche junctions in a cold case design for high reliability. Electrical ratings indicate the high temperature resistance, low leakage current and low forward voltage drop. Plug-in silicon rectifiers are available in full wave, half wave, doubler, center tap, open bridge and three phase types. Voltage ratings range from 50 to 5000 volts PIV and currents from 100 mA to 6 amps. Other ratings in plug-in modules can be produced on request.

Electrical Ratings

Maximum Allowable DC Output Current:	
at 25 ^{O} C ambient temperature,	6.0 amps
at 100 ^{O} C ambient temperature,	3.0 amps
at 150 ^{O} C ambient temperature,	1.0 amps
Maximum Allowable One Cycle Surge Current: (60 cps single phase non-recurrent, at rated PRV and no load	250 amps
Maximum Full Load Forward Voltage Drop (150 ^{O} C full cycle average)	.6 volt
Maximum Reverse Current: (150 ^{O} C full cycle average)	5 mA
Storage Temperature and Operating Temperature	175 ^{O} C



SERIES R SPECIFICATIONS

CURRENT (TENS OF Ma)	SERIES DESIGNATION	PIV (HUNDREDS OF VOLTS)	Code	Circuit
100 mA to 6 amp	R	50 to 5000 volts	B	single phase bridge
			C	single-phase center tap pos.
			D	doubler
			H	single phase half wave
			J	3 phase, half wave pos.
			K	3 phase, half wave neg.
			L	3 phase, bridge
			M	3 phase, center tap
			N	single phase, center tap, neg.
			U	open bridge, pos.

60 R 10 B

First number represents current in tens of milliamps, second is the series designation, third PIV in hundreds of volts, fourth code designation for circuit. 60 R 10 B, for example, signifies 600mA, Series R, 1000 volts PIV, single phase bridge circuit.

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