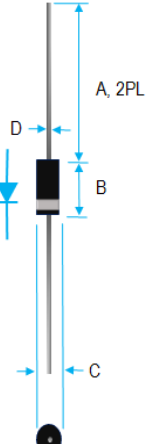


FAST RECOVERY HIGH VOLTAGE RECTIFIER

	<table border="1"> <thead> <tr> <th></th> <th>Value</th> <th>Inch[mm]</th> <th>DO-41</th> </tr> </thead> <tbody> <tr> <td>Dim.</td> <td>Min.</td> <td></td> <td>Max.</td> </tr> <tr> <td>A</td> <td>1.000</td> <td>[25.40]</td> <td>---</td> </tr> <tr> <td>B</td> <td>0.166</td> <td>[4.22]</td> <td>0.205 [5.21]</td> </tr> <tr> <td>C</td> <td>0.080</td> <td>[2.03]</td> <td>0.107 [2.72]</td> </tr> <tr> <td>D</td> <td>0.028</td> <td>[0.71]</td> <td>0.034 [0.86]</td> </tr> </tbody> </table>			Value	Inch[mm]	DO-41	Dim.	Min.		Max.	A	1.000	[25.40]	---	B	0.166	[4.22]	0.205 [5.21]	C	0.080	[2.03]	0.107 [2.72]	D	0.028	[0.71]	0.034 [0.86]
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<p>GP02-25 AND GP02-30: DO-41 GP02-35 THRU GP02-60: DO-15</p> <table border="1"> <thead> <tr> <th></th> <th>Value</th> <th>Inch[mm]</th> <th>DO-15</th> </tr> </thead> <tbody> <tr> <td>Dim.</td> <td>Min.</td> <td></td> <td>Max.</td> </tr> <tr> <td>A</td> <td>1.000</td> <td>[25.40]</td> <td>---</td> </tr> <tr> <td>B</td> <td>0.230</td> <td>[5.84]</td> <td>0.300 [7.62]</td> </tr> <tr> <td>C</td> <td>0.104</td> <td>[2.64]</td> <td>0.140 [3.56]</td> </tr> <tr> <td>D</td> <td>0.028</td> <td>[0.71]</td> <td>0.034 [0.86]</td> </tr> </tbody> </table>			Value	Inch[mm]	DO-15	Dim.	Min.		Max.	A	1.000	[25.40]	---	B	0.230	[5.84]	0.300 [7.62]	C	0.104	[2.64]	0.140 [3.56]	D	0.028	[0.71]	0.034 [0.86]	
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PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. BEVELED ROUND CHIP, AVALANCHE OPERATION
3. CASE: DO-41/DO-15 TRANSFER MOLDED
4. DIMENSIONS IN INCHES AND (MILLIMETERS)
5. POLARITY: INDICATED BY CATHODE BAND
6. WEIGHT: DO-41 0.34 GRAMS / DO-15 0.40 GRAMS
7. LEADS: SOLDERABILITY PER MIL-STD-202 METHOD 208
8. RoHS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55°C TO +125°C. SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%.

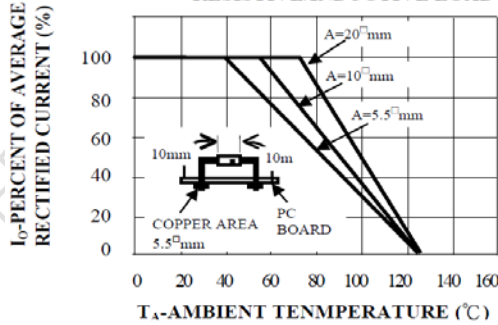
RATINGS	SYMBOL	VALUE	UNITS
AVERAGE FORWARD RECTIFIED CURRENT AT L=10mm TA=55°C	I_O	0.2	A
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta ja}$	50	°C/W
MAXIMUM REVERSE CURRENT @ 25°C, VDC	I_R	5	uA
MAXIMUM REVERSE CURRENT @ 100°C	I_R	50	uA
NON-REPETITIVE PEAK FORWARD SURGE CURRENT, 8.3ms HALF SINE-WAVE	I_{FSM}	25 (GP02-25 to -40) 20 (GP02-45 to -60)	A
TYPICAL JUNCTION CAPACITANCE(NOTE1)	C_J	7 (GP02-25 to -40) 5 (GP02-45 to -60)	pF

1. MEASURED @ 1.0 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 V
2. BOTH LEADS ATTACHED TO HEATSINK 20x20x1T (mm) COPPER PLATE AT LEAD LENGTH 5mm
3. DO-41 FOR GP02-25 THRU GP02-30, DO-15 FOR GP02-35 THRU GP02-60
4. MAXIMUM FORWARD VOLTAGE AT I_o DC

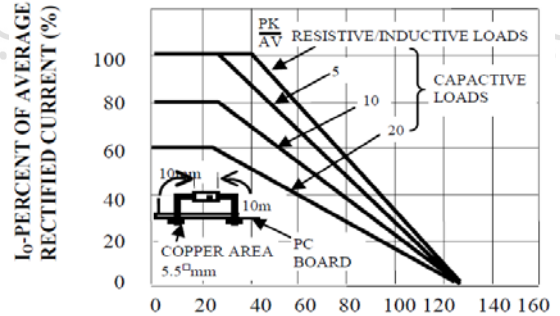
PART NUMBER	MAX RECURRENT PK REV VOLTAGE V_{RRM} (V)	MAX RMS VOLTAGE V_{RMS} (V)	MAX DC BLOCKING VOLTAGE V_{DC} (V)	MAX FWD VOLTAGE V_F (V)
GP02-25	2500	1750	2500	3
GP02-30	3000	2100	3000	3
GP02-35	3500	2450	3500	5
GP02-40	4000	2800	4000	5
GP02-50	5000	3500	5000	7
GP02-60	6000	4200	6000	7

RATING AND CHARACTERISTIC CURVES

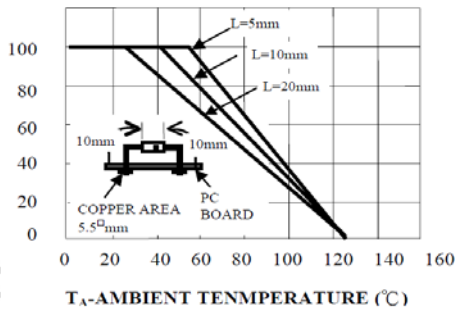
**FIG. 1 MAXIMUM CURRENT RATING
EFFECT OF COPPER AREA.
RESISTIVE/INDUCTIVE LOAD**



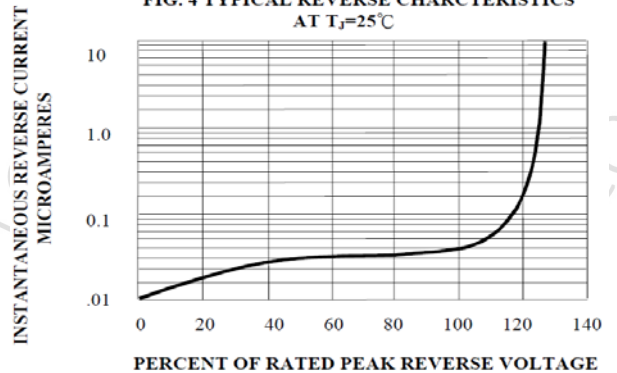
**FIG. 2 MAXIMUM CURRENT RATING
CAPACITIVE LOAD,
10mm LEAD LENGTHS**



**FIG. 3 MAXIMUM CURRENT RATING
EFFECT OF COPPER AREA.
RESISTIVE/INDUCTIVE LOAD**



**FIG. 4 TYPICAL REVERSE CHARACTERISTICS
AT T_J=25°C**



**FIG. 5 MAXIMUM FORWARD SURGE
VS NUMBER OF CYCLES**

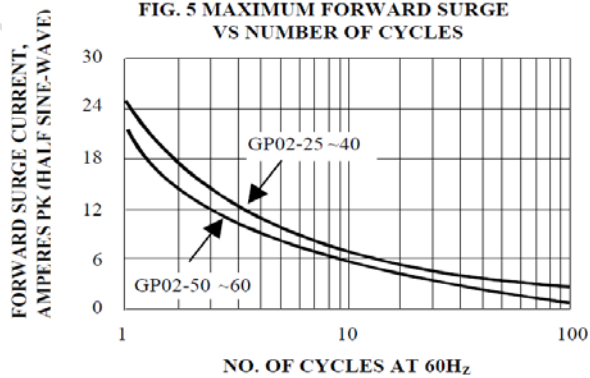
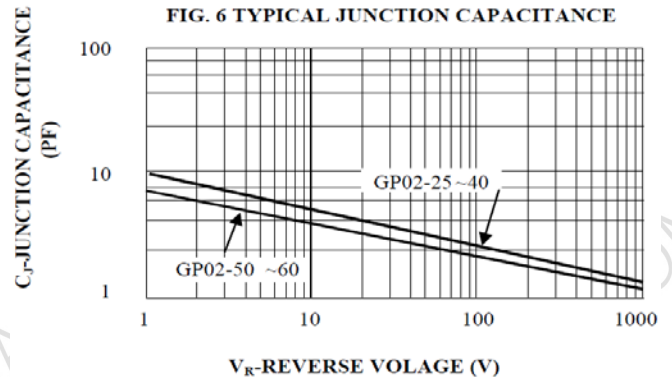


FIG. 6 TYPICAL JUNCTION CAPACITANCE



**FIG. 7 TYPICAL FORWARD
CHARACTERISTICS**

