

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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FS2A-L THRU FS2M-L

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Higher Temp Soldering: 260°C for 10 Seconds At Terminals
- Available on Tape and Reel
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C

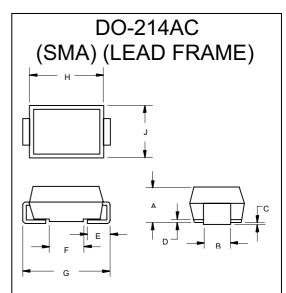
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FS2A-L	FS2A	50V	35V	50V
FS2B-L	FS2B	100V	70V	100V
FS2D-L	FS2D	200V	140V	200V
FS2G-L	FS2G	400V	280V	400V
FS2J-L	FS2J	600V	420V	600V
FS2K-L	FS2K	800V	560V	800V
FS2M-L	FS2M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

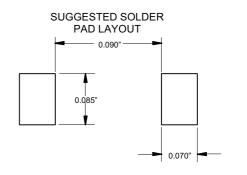
Average Forward Current	I _{F(AV)}	2.0A	T _J =90°C
Peak Forward Surge Current	I _{FSM}	50A	8.3ms half sine
Maximum Instantaneous Forward Voltage	V_{F}	1.30V	I _{FM} =2.0A T _A =25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0uA	T _J =25°C
Maximum Reverse Recovery Times FS2A-L~FS2G-L FS2J-L FS2K-L~FS2M-L	t _{rr}	150ns 250ns 500ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance	C _j	50pF	Measured at 1.0MHz, V _R =4.0V

Note:1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7. *Pulse test: Pulse width 300 usec, duty cycle 2%.

2.0 Amp Fast Recovery Rectifier 50 to 1000 Volts



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.079	.096	2.00	2.44	
В	.050	.064	1.27	1.63	
С	.002	.008	.05	.20	
D		.02		.51	
E	.030	.060	.76	1.52	
F	.065	.091	1.65	2.32	
G	.189	.220	4.80	5.59	
Н	.157	.181	4.00	4.60	
J	.090	.115	2.25	2.92	

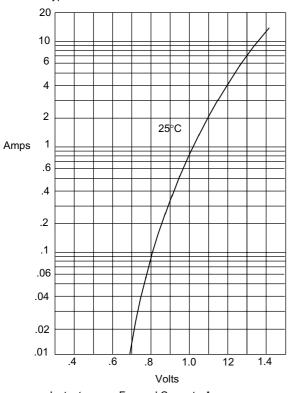




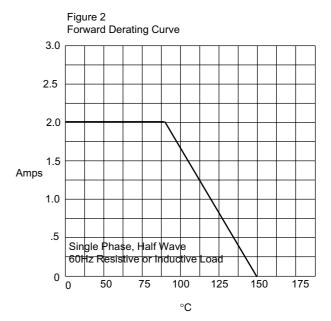
FS2A-L thru FS2M-L

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Figure 1 Typical Forward Characteristics

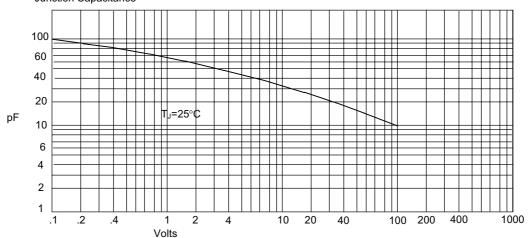


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C

Figure 3 Junction Capacitance

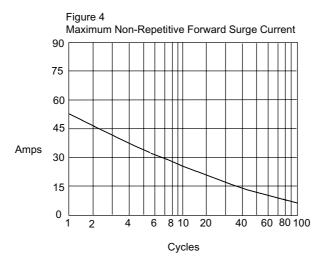


Junction Capacitance - pF*versus* Reverse Voltage - Volts



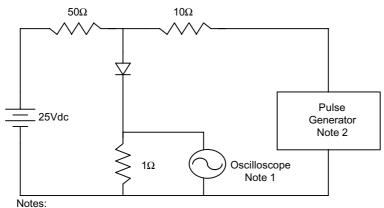
FS2A-L thru FS2M-L

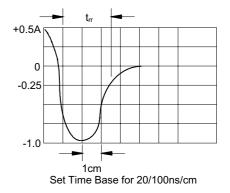




Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Figure 5
Reverse Recovery Time Characteristic And Test Circuit Diagram





- 1. Rise Time = 7ns max.
- Input impedance = 1 megohm, 22pF
- 2. Rise Time = 10ns max.
- Source impedance = 50 ohms
- 3. Resistors are non-inductive



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Ordering Information:

Device	Packing	
FS2A-LTP~FS2M-LTP	Tape&Reel: 5Kpcs/Reel	

Note: Adding "-HF" suffix for halogen free, eg. FS2A-LTP-HF~FS2M-LTP-HF

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