

Micro Commercial Components



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FS1A-L **THRU** FS1M-L

Features

- Halogen free available upon request by adding suffix "-HF" Epoxy meets UL 94 V-0 flammability rating

- Moisture Sensitivity Level 1 Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
 Easy Pick And Place
- High Temp Soldering: 260 °C for 10 Seconds At Terminals
- Fast Recovery Times For High Efficiency

Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead

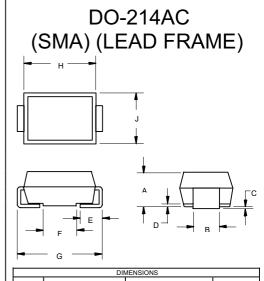
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FS1A-L	FS1A	50V	35V	50V
FS1B-L	FS1B	100V	70V	100V
FS1D-L	FS1D	200V	140V	200V
FS1G-L	FS1G	400V	280V	400V
FS1J-L	FS1J	600V	420V	600V
FS1K-L	FS1K	800V	560V	800V
FS1M-L	FS1M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

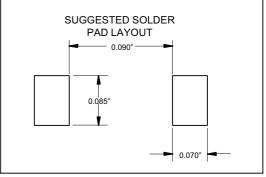
Average Forward current	I _{F(AV)}	1.0A	T _a = 90°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_{F}	1.30V	I _{FM} = 1.0A; T _J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 200μΑ	T _J = 25°C T _J = 125°C
Maximum Reverse Recovery Time FS1A-L-G-L FS1J-L FS1K-L-M-L	T _{rr}	150ns 250ns 500ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz, V _R =4.0V

^{*}Pulse test: Pulse width 200 μsec, Duty cycle 2% Notes:1.High Temperature Solder Exemption Applied,see EU Directive Annex Notes 7.

1 Amp Fast Recovery Silicon 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		

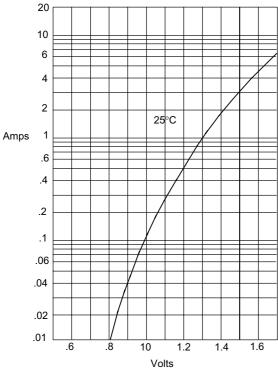


FS1A-L thru FS1M-L

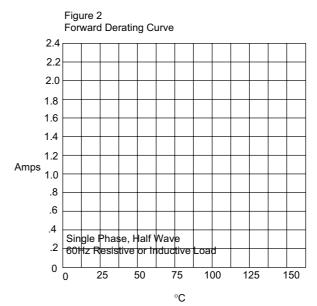


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Figure 1 Typical Forward Characteristics

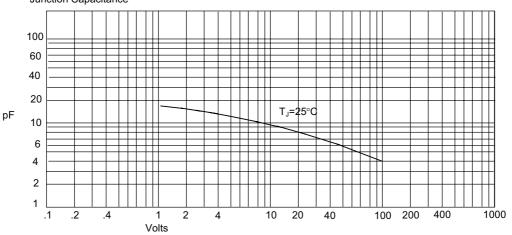


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes*versus* Ambient Temperature -°C

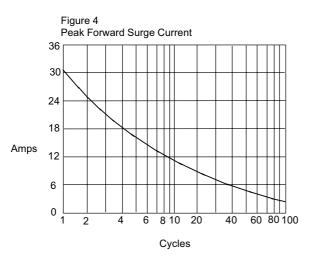




Junction Capacitance - pF*versus* Reverse Voltage - Volts

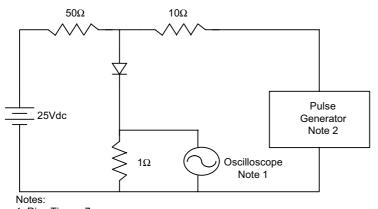
FS1A-L thru FS1M-L



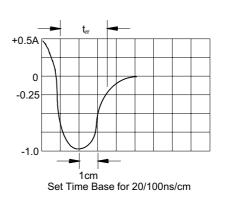


Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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





Ordering Information:

Device	Packing	
FS1A-LTP~FS1M-LTP	Tape&Reel: 5Kpcs/Reel	

Note: Adding "-HF" suffix for halogen free, eg. FS1A-LTP-HF~FS1M-LTP-HF

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