

Features

- · Easy Pick And Place
- Fast Recovery Times For High Efficiency
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1)("P" Suffix Designates Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 15°C/W Junction to Lead

MCC Part 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

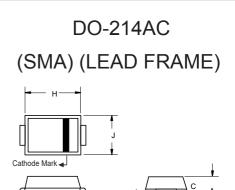
Electrical Characteristics @ 25°C Unless Otherwise Specified

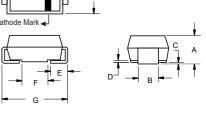
Average Forward Current	I _{F(AV)}	1.0A	T _L =90°C;
Peak Forward Surge Current	I _{FSM}	30A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.30V	I _{FM} =1.0A; T _J =25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 50μA	T _J =25°C; T _J =125°C
Maximum Reverse Recovery Time FS1A-L~FS1G-L FS1J-L FS1K-L~FS1M-L	t _{rr}	150ns 250ns 500ns	I _F =0.5A; I _R =1.0A; Irr=0.25A
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz V _R =4.0V

^{*}Pulse Test: Pulse Width 200 µsec, Duty Cycle 2%

Note: 1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

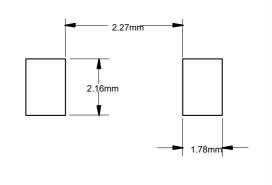
1 Amp Fast Recovery Rectifier 50 to 1000 Volts





DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.075	0.096	1.90	2.44		
В	0.050	0.064	1.27	1.63		
С	0.002	0.008	0.051	0.203		
D		0.020		0.51		
E	0.030	0.060	0.76	1.52		
F	0.065	0.091	1.65	2.32		
G	0.189	0.220	4.80	5.59		
Н	0.157	0.187	4.00	4.75		
J	0.090	0.115	2.25	2.92		

SUGGESTED SOLDER PAD LAYOUT





Curve Characteristics

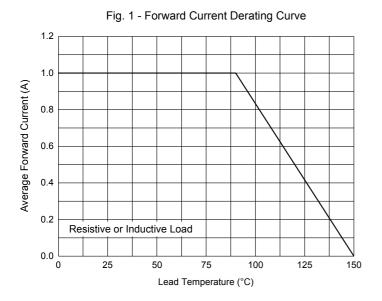
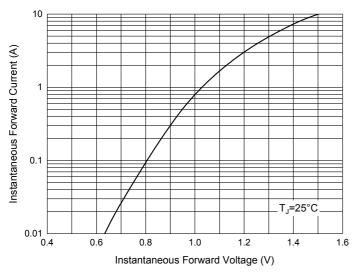


Fig. 3 - Typical Instantaneous Forward Characteristics



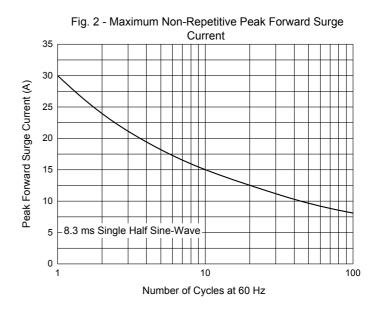
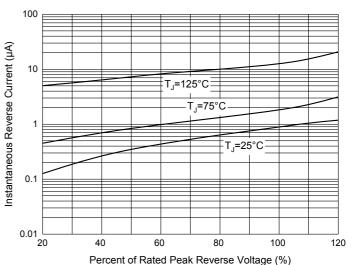


Fig. 4 - Typical Reverse Characteristics





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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