NOT RECOMMENDED FOR NEW DESIGNS **USE FS1A-LTP~FS1M-LTP SERIES**



Micro Commercial Components

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FS1A **THRU** FS₁M

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 Easy Pick And Place
- High Temp Soldering: 260 °C for 10 Seconds At Terminals
- Superfast Recovery Times For High Efficiency
- 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
- Maximum Thermal Resistance; 15°C/W Junction To Lead
- Maximum Thermal Resistance; 88°C/W Junction To Ambient

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

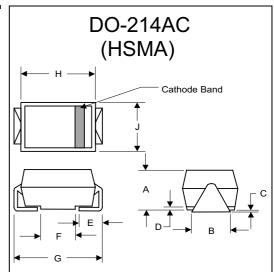
Electrical Characteristics @ 25°C Unless Otherwise Specified

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-G FS1J FS1K-M	T _{rr}	150ns 250ns 500ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance	CJ	50pF	Measured at 1.0MHz, V _R =4.0V

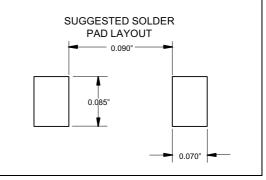
^{*}Pulse test: Pulse width 200 µsec, Duty cycle 2%

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

1 Amp Fast Recovery Silicon Rectifier 50 to 1000 Volts



DIMERIORIO						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.078	.116	1.98	2.95		
В	.067	.089	1.70	2.25		
С	.002	.008	.05	.20		
D		.02	_	.51		
E	.035	.055	.89	1.40		
F	.065	.096	1.65	2.45		
G	.205	.224	5.21	5.69		
Ι	.160	.180	4.06	4.57		
J	.100	.112	2.57	2.84		

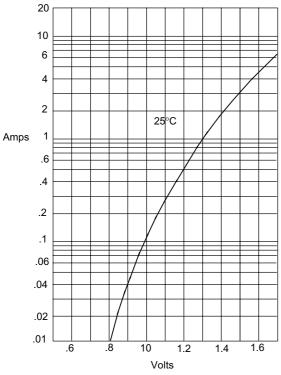


FS1A thru FS1M

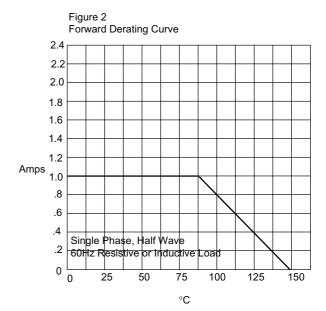
•M•C•C•

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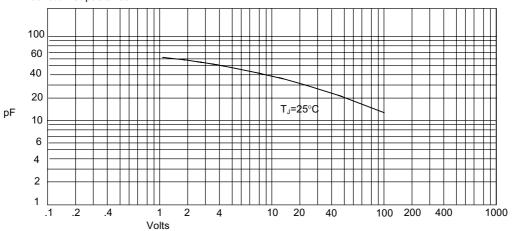


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



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



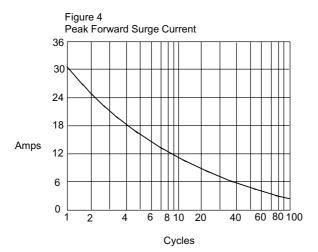


Junction Capacitance - pF*versus* Reverse Voltage - Volts

FS1A thru FS1M



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

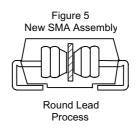
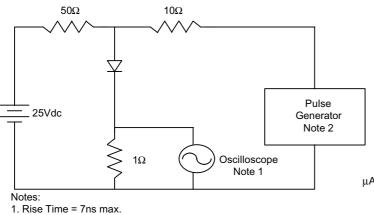


Figure 6 Reverse Recovery Time Characteristic And Test Circuit Diagram



Input impedance = 1 megohm, 22pF

2. Rise Time = 10ns max.

Source impedance = 50 ohms

3. Resistors are non-inductive

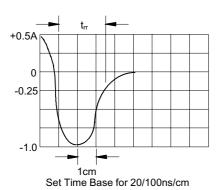
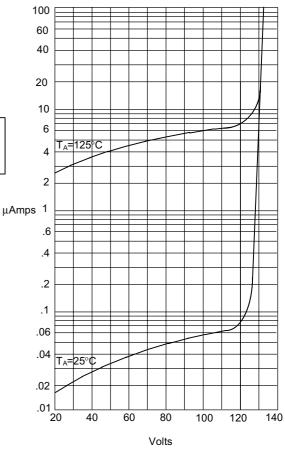


Figure 7 Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperesversus Percent Of Rated Peak Reverse Voltage - Volts



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Ordering Information:

Device	Packing		
Part Number-TP	Tape&Reel: 3Kpcs/Reel		

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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