

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"
- 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

laximum 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

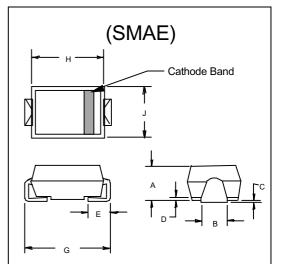
MCC	Device	Maximum	aximum Maximum	
Catalog	Marking	Recurrent	RMS	DC
Number	_	Peak Reverse	Voltage	Blocking
		Voltage	-	Voltage
FS1AE	FS1A	50V	35V	50V
FS1BE	FS1B	100V	70V	100V
FS1DE	FS1D	200V	140V	200V
FS1GE	FS1G	400V	280V	400V
FS1JE	FS1J	600V	420V	600V
FS1KE	FS1K	800V	560V	800V
FS1ME	FS1M	1000V	700V	1000V

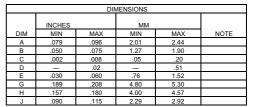
Electrical Characteristics @ 25°C Unless Otherwise Specified

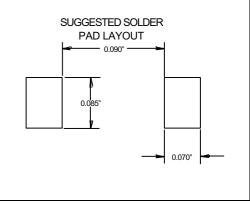
Average Forward current	I _{F(AV)}	1.0A	T _a = 90°C		
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine		
Maximum Instantaneous Forward Voltage	V_{F}	1.30V	I _{FM} = 1.0A; T _J = 25°C*		
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 200μΑ	T _J = 25°C T _J = 125°C		
Maximum Reverse Recovery Time FS1AE-GE FS1JE FS1KE-ME	Trr	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		
*Dulas tast. Dulas visite 000 usas. Dutu susla 00/					

FS1AE THRU FS1ME

1 Amp Fast Recovery Silicon Rectifier 50 to 1000 Volts



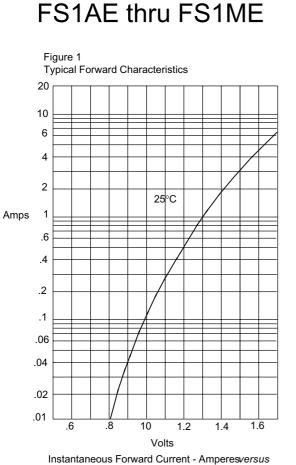




*Pulse test: Pulse width 200 µsec, Duty cycle 2%

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

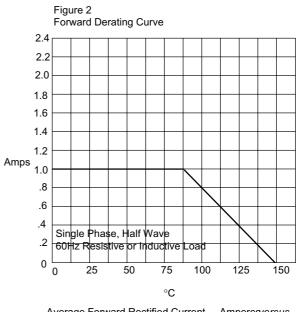
www.mccsemi.com



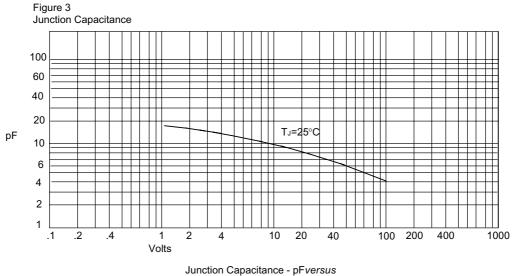
Instantaneous Forward Current - Amperesvers Instantaneous Forward Voltage - Volts



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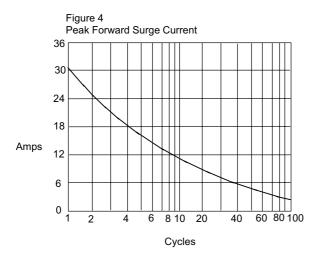
Average Forward Rectified Current - Amperes/ersus Ambient Temperature $\ -^{\circ}C$



Reverse Voltage - Volts

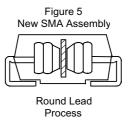
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Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Figure 6 Reverse Recovery Time Characteristic And Test Circuit Diagram

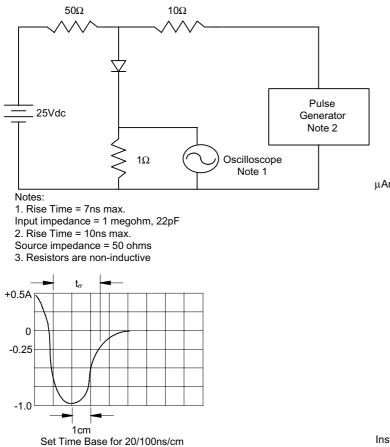
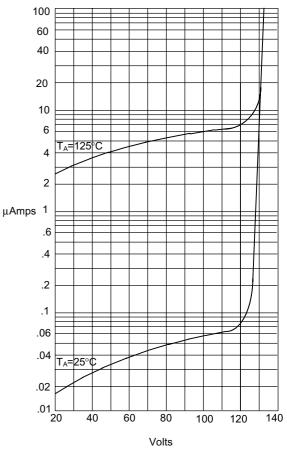


Figure 7 Typical Reverse Characteristics



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

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Ordering Information :

Device	Packing		
Part Number-TP	Tape&Reel: 6Kpcs/Reel		

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

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