NOT RECOMMENDED FOR NEW DESIGNS USE FS1A-LTP~FS1M-LTP Series



Micro Commercial Components



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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

Naximum 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

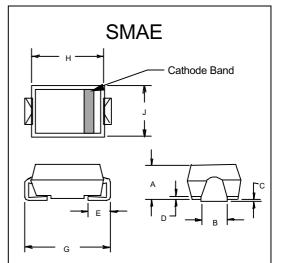
MCC	Device	Maximum Maximi		Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage	-	Voltage
FS1AE	FS1A	50V	35V	50V
FS1BE	FS1B	100V	70V	100V
FS1DE	FS1D	200V	140V	200V
FS1GE	FS1G	400V	280V	400V
FS1JE	FS1J	600V	420V	600V
FS1KE	FS1K	800V	560V	800V
FS1ME	FS1M	1000V	700V	1000V

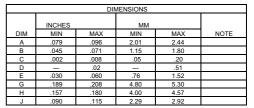
Electrical Characteristics @ 25°C Unless Otherwise Specified

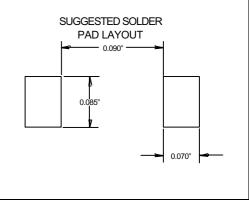
	-			
Average Forward current	I _{F(AV)}	1.0A	T _a = 90°C	
Peak Forward Surge	I _{FSM}	30A	8.3ms, half sine	
Current				
Maximum			I _{FM} = 1.0A;	
Instantaneous	VF	1.30V	T, = 25°C*	
Forward Voltage	•			
Maximum DC				
Reverse Current At	I _R	5μΑ	T」= 25°C	
Rated DC Blocking		200µA	T _J = 125°C	
Voltage		_00p.		
Maximum Reverse				
Recovery Time				
FS1AE-GE	Trr	150ns	I _F =0.5A, I _R =1.0A,	
FS1JE		250ns	I _{rr} =0.25Å	
FS1KE-ME		500ns	<u>п</u>	
Typical Junction	CJ	15pF	Measured at	
Capacitance		-	1.0MHz, V _R =4.0V	
*Dulas test. Dulas width 200 years. Duty such 20/				

FS1AE THRU FS1ME

1 Amp Fast Recovery Silicon Rectifier 50 to 1000 Volts



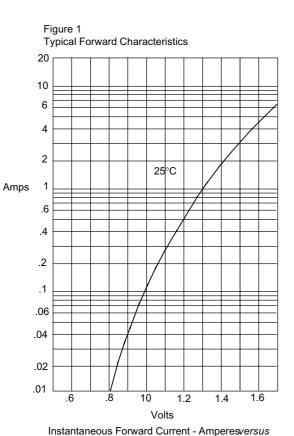




*Pulse test: Pulse width 200 μsec, Duty cycle 2%

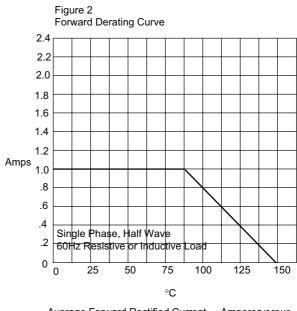
1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7. Note:

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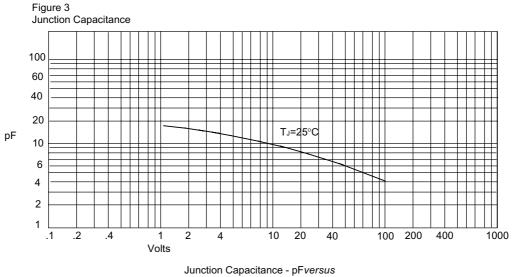


FS1AE thru FS1ME

Instantaneous Forward Current - Amperesversu Instantaneous Forward Voltage - Volts

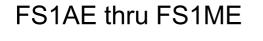


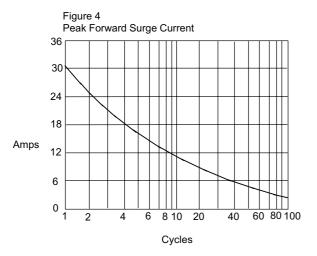
Average Forward Rectified Current - Amperes/ersus Ambient Temperature $-^\circ C$



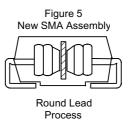
Reverse Voltage - Volts

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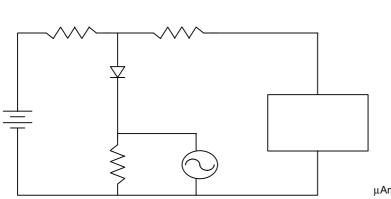


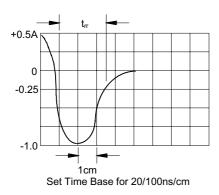


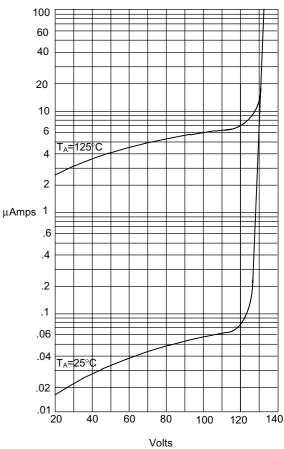
Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles











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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