

Micro Commercial Components

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Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating1
- Easy Pick And Place
- High Temp Soldering: 260 °C for 10 Seconds At Terminals
- Superfast 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 Maximum Thermal Resistance; 88°C/W Junction To Ambient

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number	_	Peak Reverse	Voltage	Blocking
		Voltage	_	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

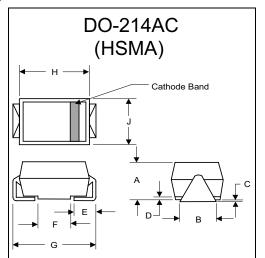
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward	I _{F(AV)}	1.0A	$T_a = 90^{\circ}C$		
current	. (,		4		
Peak Forward Surge	I _{FSM}	30A	8.3ms, half sine		
0	IFSM	307	0.0113, 1141 3116		
Current					
Maximum			I _{FM} = 1.0A;		
Instantaneous	VF	1.30V	T」= 25°C*		
Forward Voltage					
Maximum DC					
Reverse Current At	I _R	5μΑ	T _J = 25°C		
Rated DC Blocking		200µA	T ₁ = 125°C		
Voltage		• -	0		
Maximum Reverse					
Recovery Time					
FS1A-G	Trr	150ns	I _F =0.5A, I _B =1.0A,		
	l rr				
FS1J		250ns	I _{rr} =0.25A		
FS1K-M		500ns			
Typical Junction	CJ	50pF	Measured at		
Capacitance			1.0MHz, V _R =4.0V		

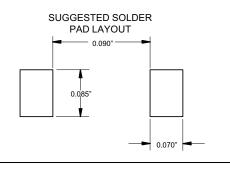
FS1A THRU

FS1M

1 Amp Fast Recovery Silicon Rectifier 50 to 1000 Volts



DIMENSIONS						
	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	1	.02		.51		
Е	.035	.055	.89	1.40		
F	.065	.096	1.65	2.45		
G	.205	.224	5.21	5.69		
Н	.160	.180	4.06	4.57		
ſ	.100	.112	2.57	2.84		



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

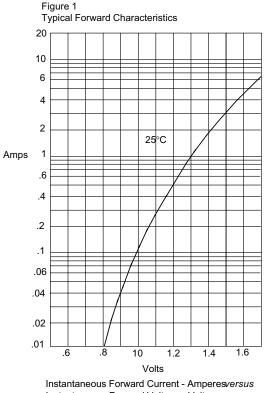
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

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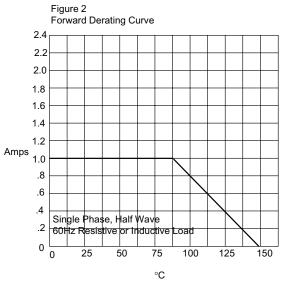
2008/02/01



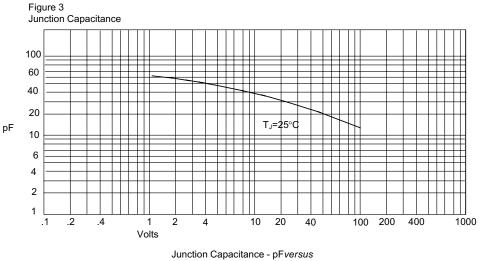


Instantaneous Forward Voltage - Volts





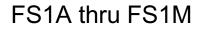
Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C

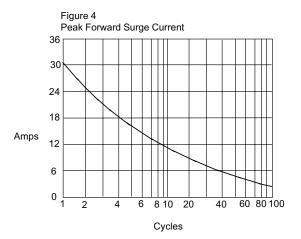


Reverse Voltage - Volts

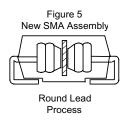
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Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



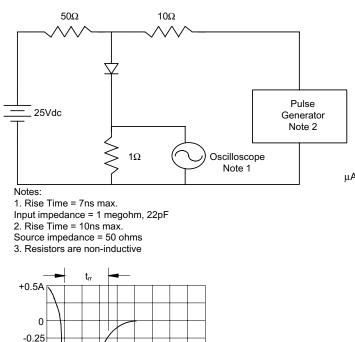
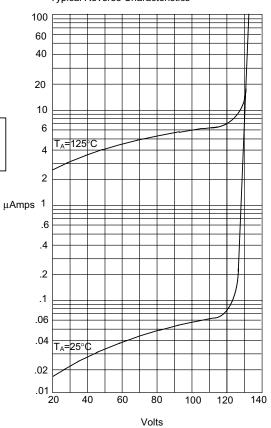


Figure 7 Typical Reverse Characteristics



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

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-1.0

1cm

Set Time Base for 20/100ns/cm



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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