

Micro Commercial Components

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

Features

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- 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	Ū	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

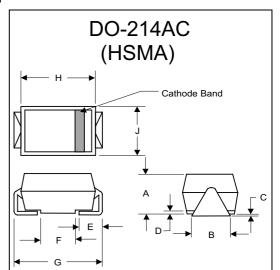
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward current	I _{F(AV)}	1.0A	T _a = 90°C			
Peak Forward Surge	I _{FSM}	30A	8.3ms, half sine			
Current						
Maximum			I _{FM} = 1.0A;			
Instantaneous	VF	1.30V	T _J = 25°C*			
Forward Voltage						
Maximum DC						
Reverse Current At	I _R	5μΑ	T, = 25°C			
Rated DC Blocking		200µA	T_ = 125°C			
Voltage			- 5			
Maximum Reverse						
Recovery Time						
FS1A-G	Trr	150ns	I _F =0.5A, I _R =1.0A,			
FS1J		250ns	I _{rr} =0.25A			
FS1K-M		500ns				
Typical Junction	C,I	50pF	Measured at			
Capacitance	, , , , , , , , , , , , , , , , , , ,	•	1.0MHz, V _R =4.0V			
*Pulse test: Pulse width 200 μsec, Duty cycle 2%						

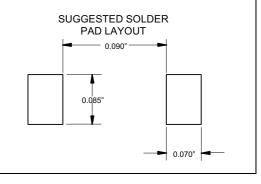
THRU FS1M

FS1A

1 Amp Fast Recovery Silicon Rectifier 50 to 1000 Volts

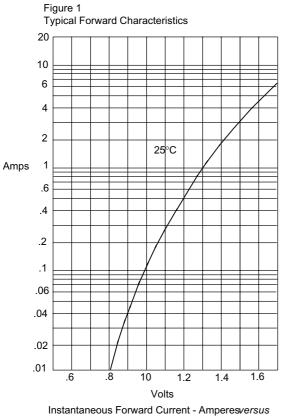


DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.078	.116	1.98	2.95			
В	.067	.089	1.70	2.25			
С	.002	.008	.05	.20			
D		.02		.51			
E	.035	.055	.89	1.40			
F	.065	.096	1.65	2.45			
G	.205	.224	5.21	5.69			
Н	.160	.180	4.06	4.57			
J	.100	.112	2.57	2.84			



www.mccsemi.com

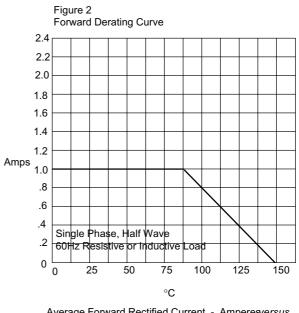
FS1A thru FS1M



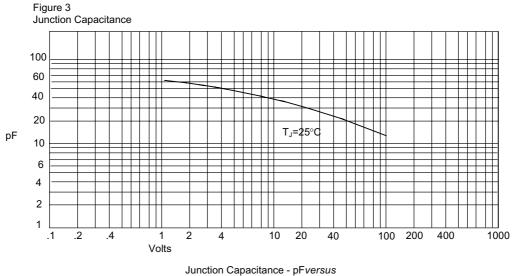
Instantaneous Forward Current - Amperesversu Instantaneous Forward Voltage - Volts



Micro Commercial Components



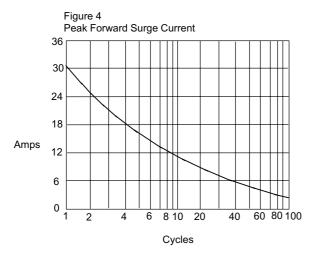
Average Forward Rectified Current - Amperes/ersus Ambient Temperature $\ -^{\circ}C$



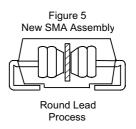
Reverse Voltage - Volts

- www.mccsemi.com

FS1A thru FS1M

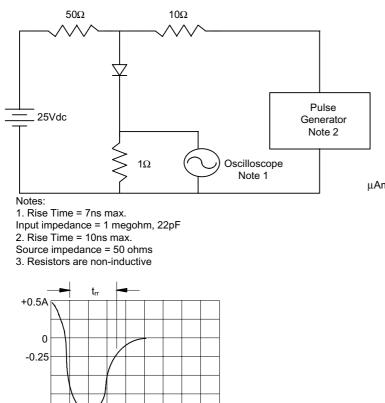






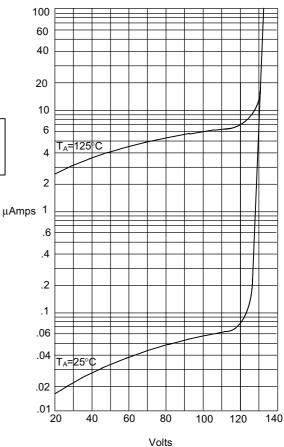
Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Figure 6 Reverse Recovery Time Characteristic And Test Circuit Diagram



1cm Set Time Base for 20/100ns/cm

Figure 7 Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes/ersus Percent Of Rated Peak Reverse Voltage - Volts

www.mccsemi.com

-1.0



IMPORTANT NOTICE

Micro Commercial Components Corp . reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes .
Micro Commercial Components Corp . does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold Micro Commercial Components Corp . and all the companies whose products are represented on our website, harmless against all damages.

APPLICATIONS DISCLAIMER

Products offer by Micro Commercial Components Corp. are not intended for use in Medical,

Aerospace or Military Applications.

