Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- High Reliability
- High Current Capability
- High Surge Capability
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

2.0 Amp Super Fast Glass Passivated Rectifier 50 to 600 Volts

Maximum Ratings

- Operating Junction Temperature Range: -65ºC to +150ºC
- Storage Temperature Range: -65ºC to +150ºC
- Typical Thermal Resistance: 48°C/W Junction to Ambient
- Typical Thermal Resistance: 20°C/W Junction to Lead
- Typical Thermal Resistance: 12°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SF21G	SF21G	50V	35V	50V
SF22G	SF22G	100V	70V	100V
SF23G	SF23G	150V	105V	150V
SF24G	SF24G	200V	140V	200V
SF25G	SF25G	300V	210V	300V
SF26G	SF26G	400V	280V	400V
SF28G	SF28G	600V	420V	600V

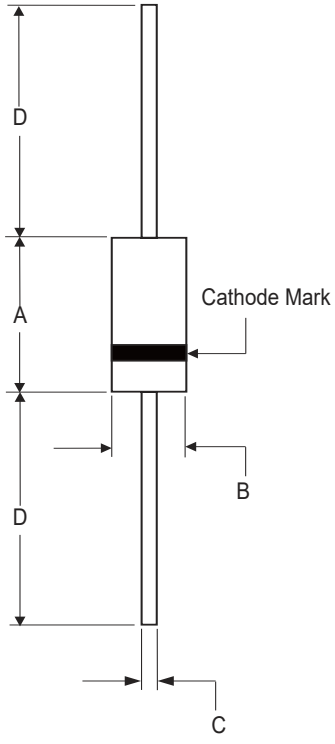
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2.0A	T_C=55ºC
Peak Forward Surge Current	I_{FSM}	50A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage SF21G-SF24G SF25G-SF26G SF28G	V_F	0.95V 1.3V 1.7V	I_{FM}=2.0A; T_J=25ºC*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0µA 100µA	T_J=25ºC; T_J=125ºC
Maximum Reverse Recovery Time	t_{rr}	35ns	I_F=0.5A; I_R=1.0A; I_{RR}=0.25A
Typical Junction Capacitance SF21G-SF24G SF25G-SF28G	C_J	60pF 30pF	Measured at 1.0MHz V_R=4.0V

*Pulse Test: Pulse Width 300 usec, Duty Cycle 1%.

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

DO-15



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.230	0.300	5.80	7.60	
B	0.104	0.140	2.60	3.60	
C	0.026	0.035	0.70	0.90	
D	1.000	-----	25.40	-----	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

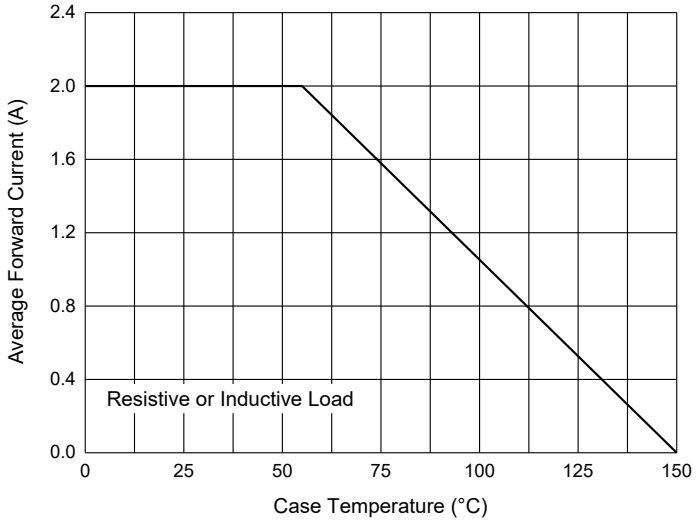


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

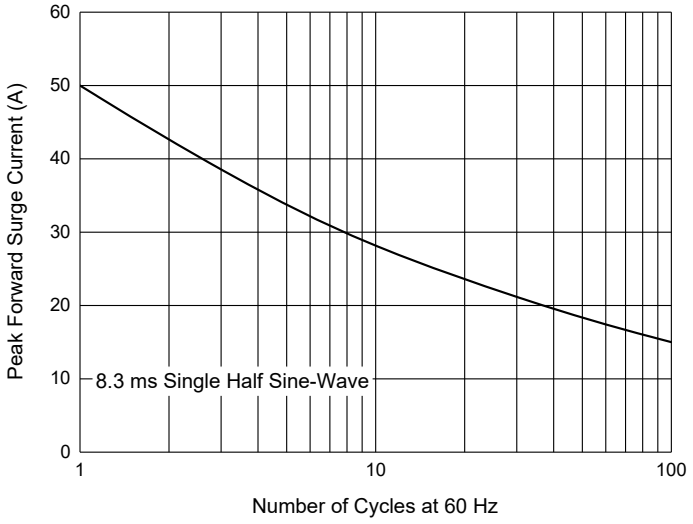


Fig. 3 - Typical Instantaneous Forward Characteristics

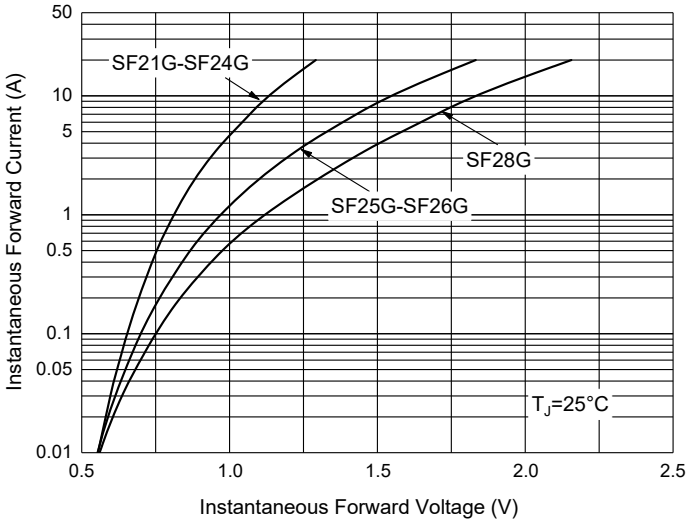
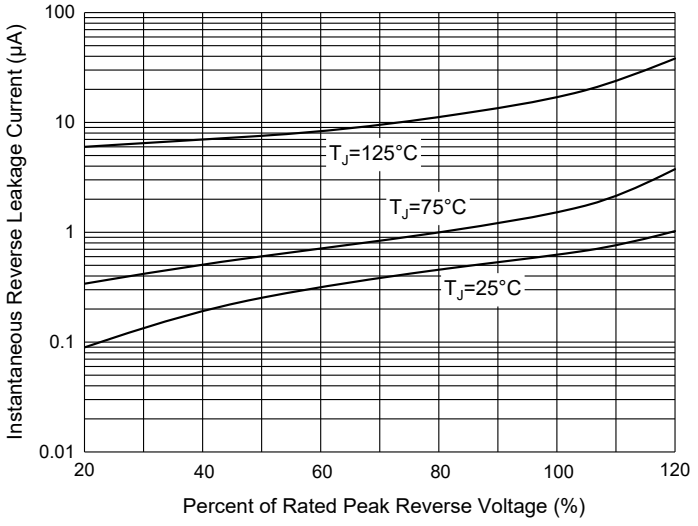


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel: 4Kpcs/Reel
(Part Number)-AP	Ammo Packing: 3Kpcs/Ammo Box
(Part Number)-BP	Bulk:500pcs/Box,25Kpcs/Carton

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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