

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

Maximum Ratings

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- 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

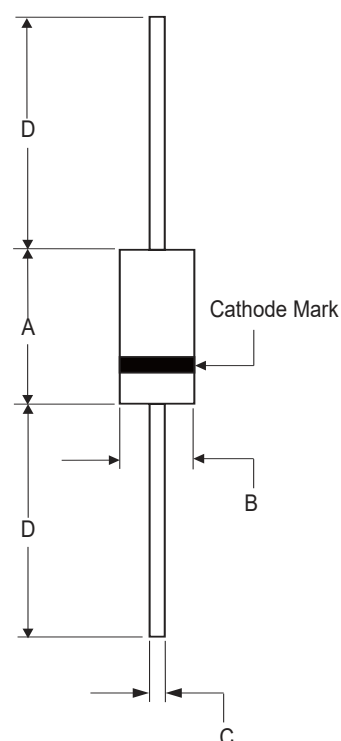
Average Forward Current	$I_{F(AV)}$	2.0A	$T_C=55^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	50A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage SF21G-SF24G SF25G-SF26G SF28G	V_F	0.95V 1.3V 1.7V	$I_{FM}=2.0\text{A};$ $T_J=25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking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

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

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

2.0 Amp Super Fast Glass Passivated Rectifier 50 to 600 Volts

DO-15



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	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

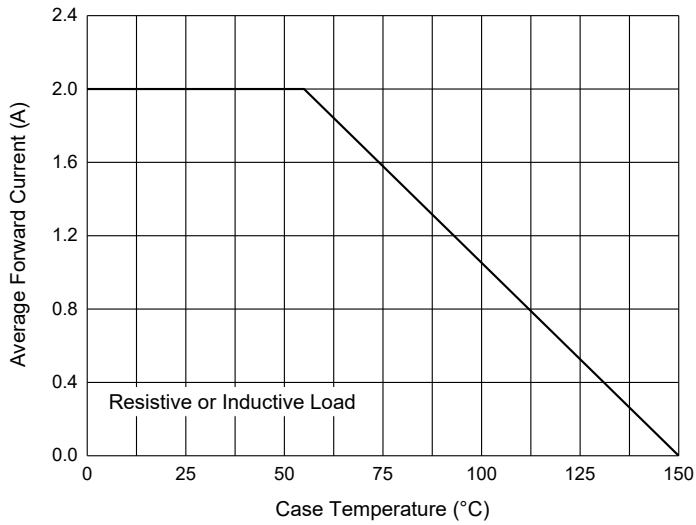


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

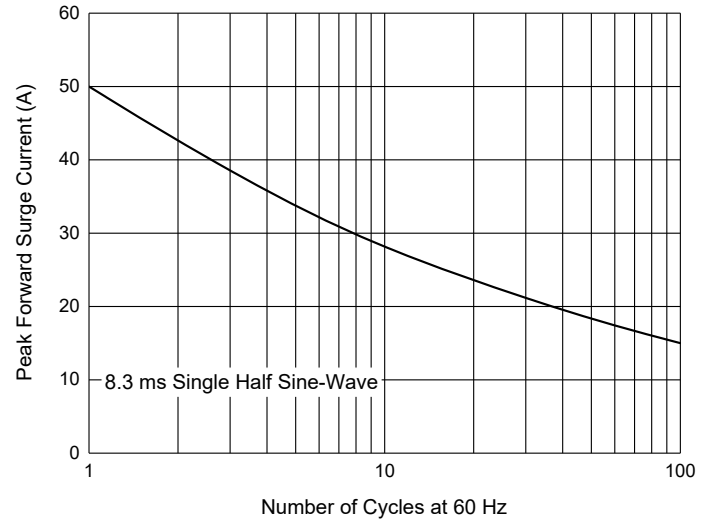


Fig. 3 - Typical Instantaneous Forward Characteristics

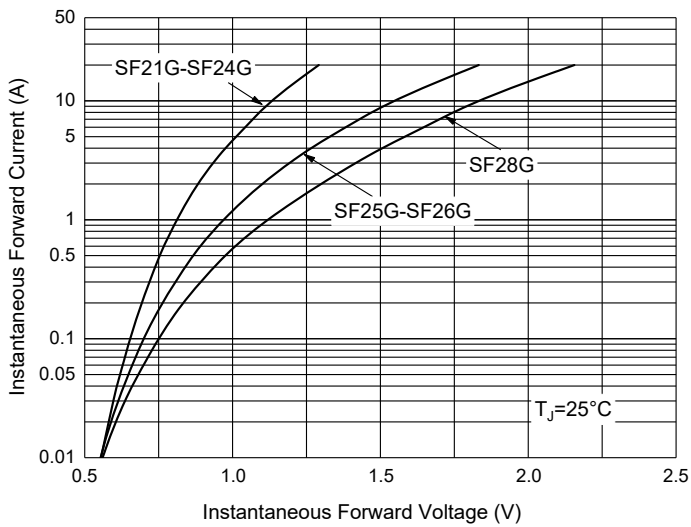
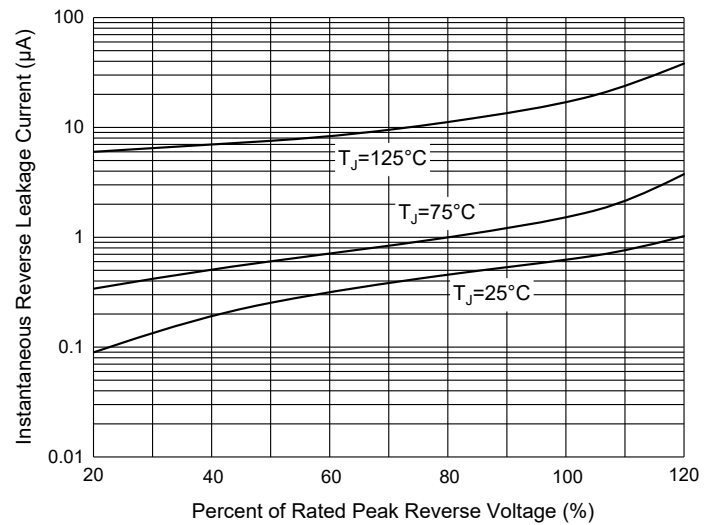


Fig. 4 - Typical Reverse Leakage Characteristics



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/Carlton

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

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