



Micro Commercial Components

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SF31G THRU SF38G

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Low power loss, high efficiency
- Low Forward Voltage Drop and Low Leakage
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

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

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SF31G	SF31G	50V	35V	50V
SF32G	SF32G	100V	70V	100V
SF34G	SF34G	200V	140V	200V
SF35G	SF35G	300V	210V	300V
SF36G	SF36G	400V	280V	400V
SF38G	SF38G	600V	420V	600V

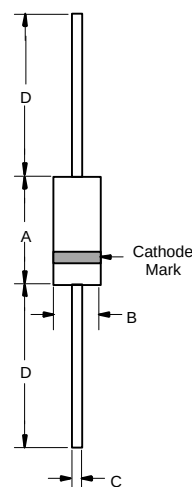
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	3 A	$T_A = 55^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	125A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SF31G-35G SF36G SF38G	V_F	0.95V 1.27V 1.75V	$I_{FM} = 3.0A$; $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5 μA 50 μA	$T_A = 25^\circ\text{C}$ $T_A = 150^\circ\text{C}$
Maximum Reverse Recovery Time	T_{rr}	35.0nS	$I_F=0.5A$, $I_R=1.0A$, $I_{rr}=0.25A$
Typical Junction Capacitance SF31G-35G SF36G-38G	C_J	50pF 30pF	Measured at 1.0MHz, $V_R=4.0V$

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

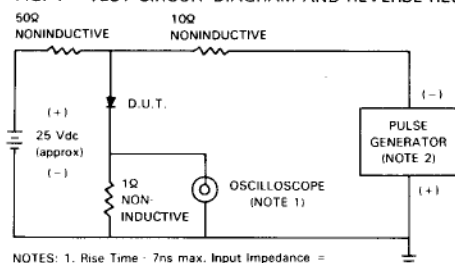
3 Amp High Efficiency Glass Passivated Rectifier 50 to 600 Volts

DO-201AD



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.287	.374	7.30	9.50	
B	.189	.208	4.80	5.30	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

FIG. 1 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES: 1. Rise Time - 7ns max. Input Impedance = 1 megohm. 22pF.
2. Rise Time - 10ns max. Source Impedance = 50 ohms.

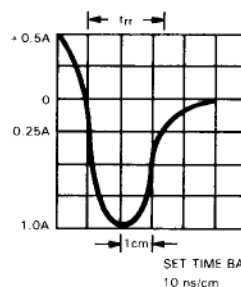


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

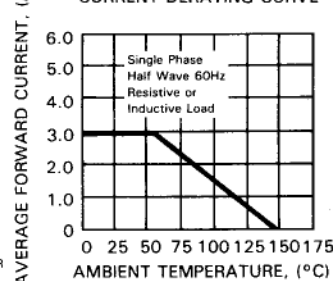


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

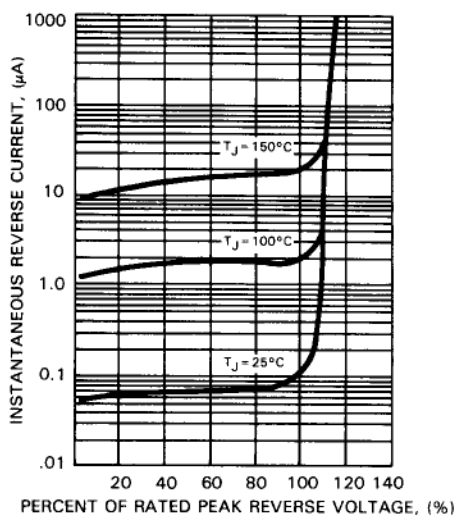


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

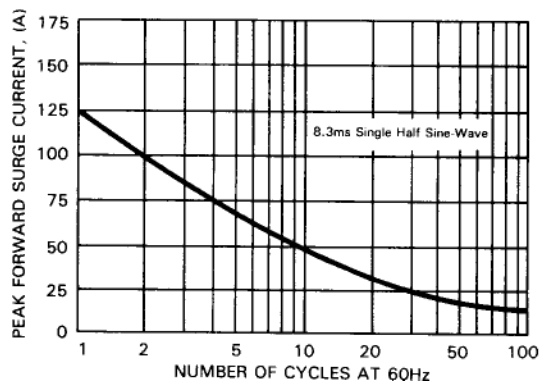


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

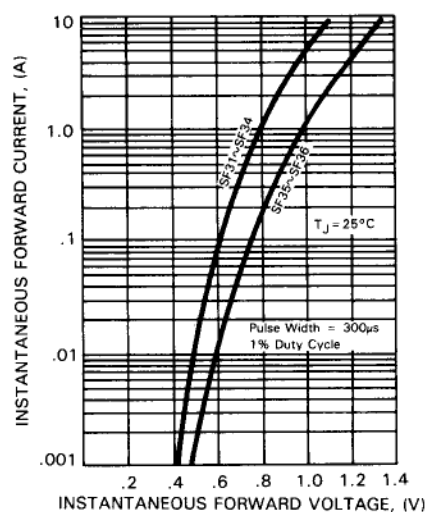
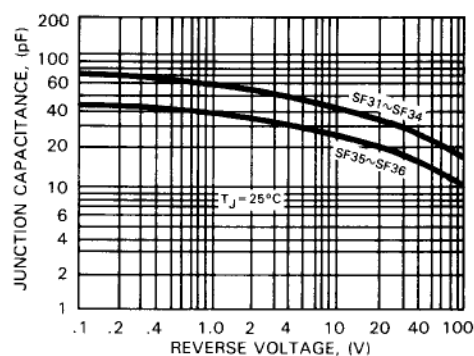


FIG. 6 - TYPICAL JUNCTION CAPACITANCE





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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel; 1.2Kpcs/Reel
(Part Number)-AP	Ammo Packing;1.2Kpcs/AmmoBox
(Part Number)-BP	Bulk;500pcs/Box

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