

Features

- High Current Capability
- Glass Passivated Junction
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 45°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N5391GP	1N5391GP	50V	35V	50V
1N5392GP	1N5392GP	100V	70V	100V
1N5393GP	1N5393GP	200V	140V	200V
1N5394GP	1N5394GP	300V	210V	300V
1N5395GP	1N5395GP	400V	280V	400V
1N5396GP	1N5396GP	500V	350V	500V
1N5397GP	1N5397GP	600V	420V	600V
1N5398GP	1N5398GP	800V	560V	800V
1N5399GP	1N5399GP	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

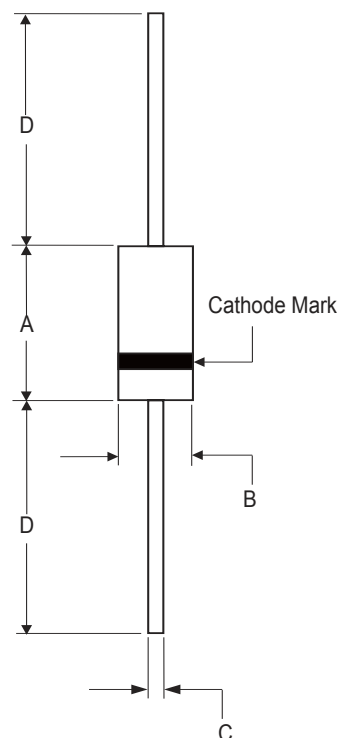
Average Forward Current	$I_{F(AV)}$	1.5A	$T_A = 70^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	50A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V_F	1.4V	$I_{FM} = 1.5\text{A};$ $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5 μA 300 μA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$
Typical Junction Capacitance	C_J	15pF	Measured at 1.0MHz, $V_R = 4.0\text{V}$

*Pulse Test: Pulse Width 300 μsec , Duty Cycle 2%

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

1.5 Amp Glass Passivated Rectifier 50 to 1000 Volts

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 - Typical Instantaneous Forward Characteristics

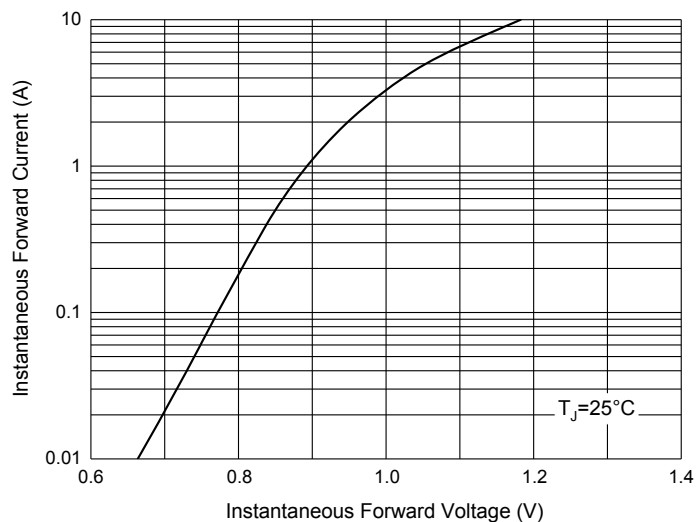


Fig. 2 - Typical Reverse Leakage Characteristics

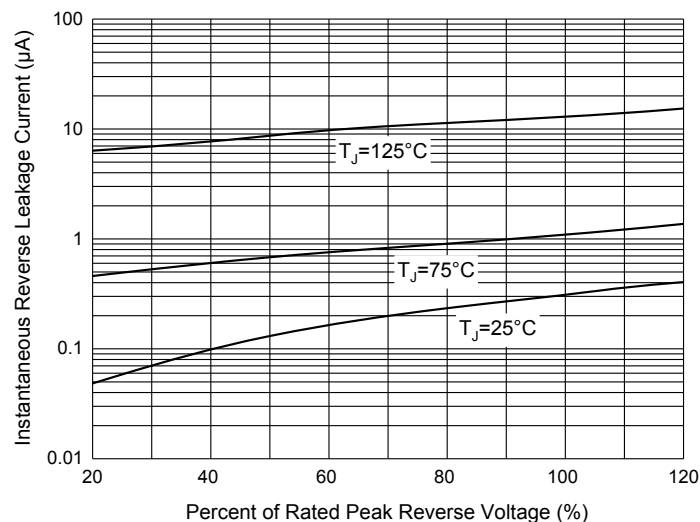


Fig. 3 - Forward Current Derating Curve

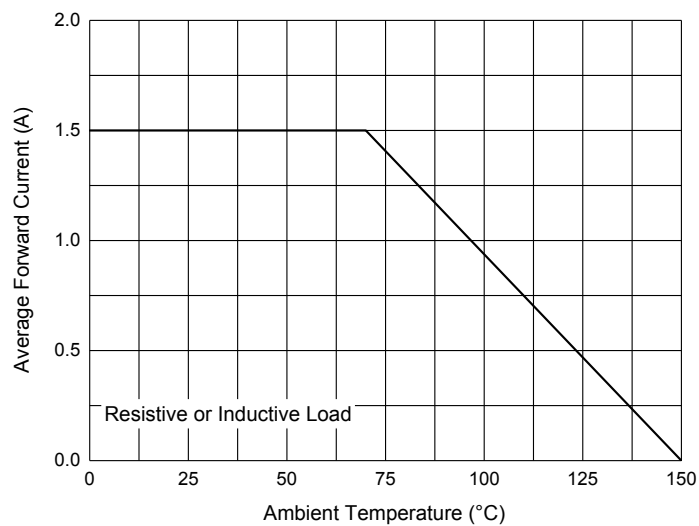
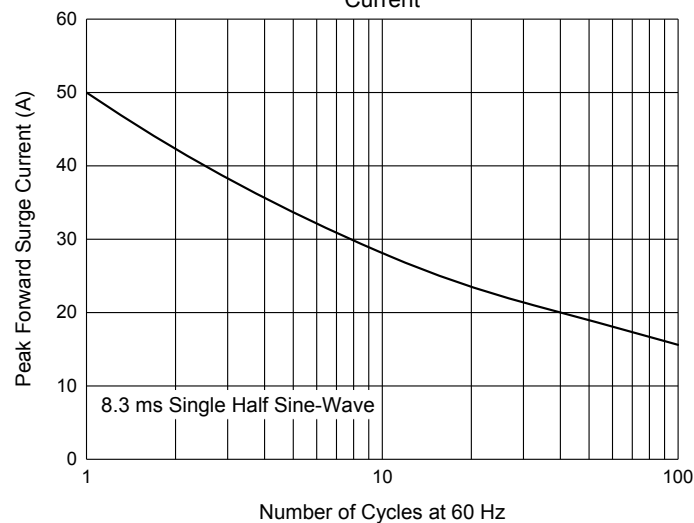


Fig. 4 - Maximum Non-Repetitive Peak Forward Surge Current



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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Micro Commercial Components (MCC):

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<u>1N5393GP-BP</u>	<u>1N5391GP-AP</u>	<u>1N5391GP-BP</u>	<u>1N5392GP-AP</u>	<u>1N5392GP-BP</u>	<u>1N5393GP-AP</u>	<u>1N5394GP-AP</u>
<u>1N5394GP-BP</u>	<u>1N5394GP-TP</u>	<u>1N5395GP-AP</u>	<u>1N5395GP-BP</u>	<u>1N5396GP-AP</u>	<u>1N5396GP-BP</u>	<u>1N5396GP-TP</u>
<u>1N5397GP-AP</u>	<u>1N5397GP-BP</u>	<u>1N5398GP-AP</u>	<u>1N5398GP-BP</u>	<u>1N5399GP-AP</u>	<u>1N5399GP-BP</u>	