Features

- High Forward Surge Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Glass Passivated Junction
- 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: -55ºC to +150ºC
- Storage Temperature Range: -55ºC to +150ºC
- Typical thermal resistance: 20°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N5416GP	1N5416GP	1600V	1120V	1600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	3.0A	T_A=55ºC
Peak Forward Surge Current	I_{FSM}	100A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V_F	1.2V	I_{FM}=3.0A; T_J=25ºC
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0µA	T_J=25ºC;
Typical Junction Capacitance	C_J	40pF	Measured at 1.0MHz, V_R=4.0V

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

3 Amp Glass Passivated Rectifier 1600 Volts

DO-201AD

Cathode Mark
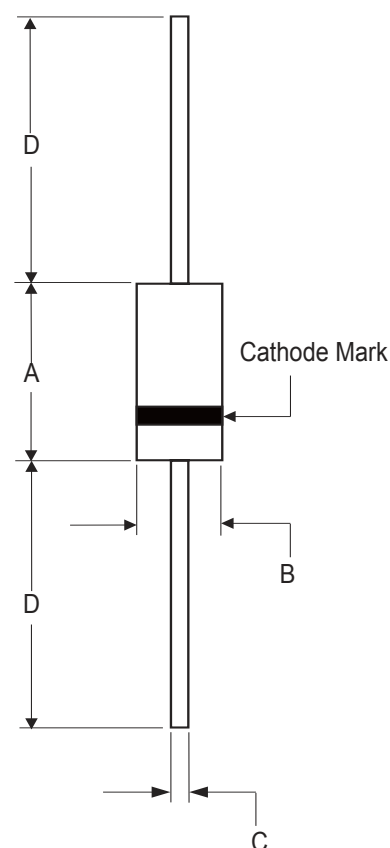
DIMENSIONS				
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.287	0.374	7.30	9.50	
B	0.189	0.208	4.80	5.30	
C	0.048	0.052	1.20	1.30	
D	1.000	-----	25.40	-----	

Curve Characteristics

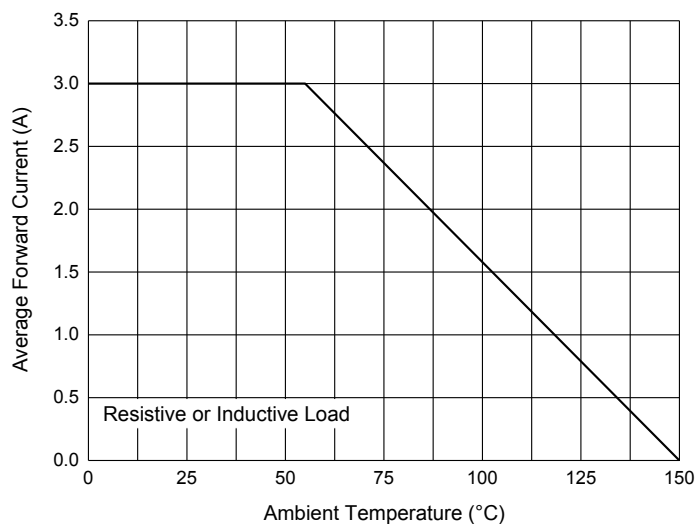Fig. 1 - Forward Current Derating Curve

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

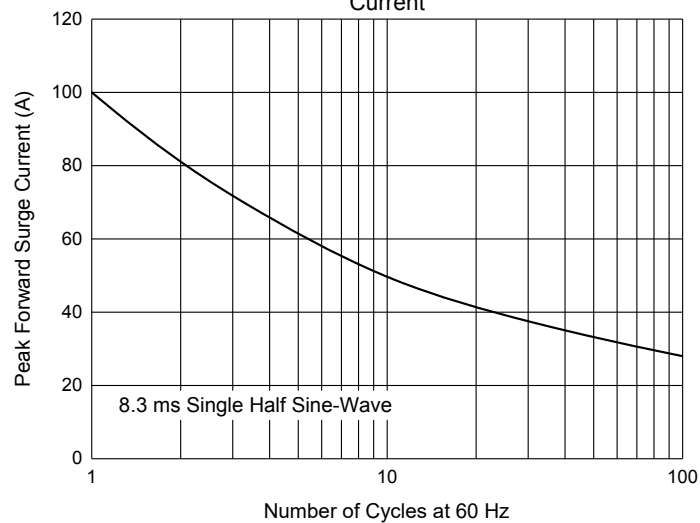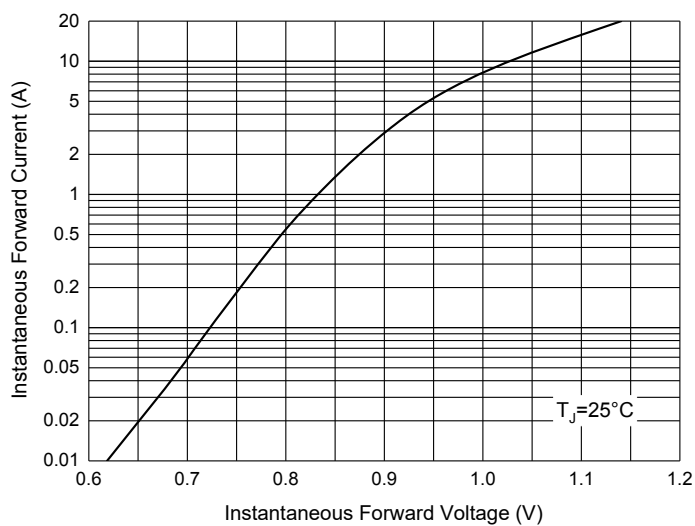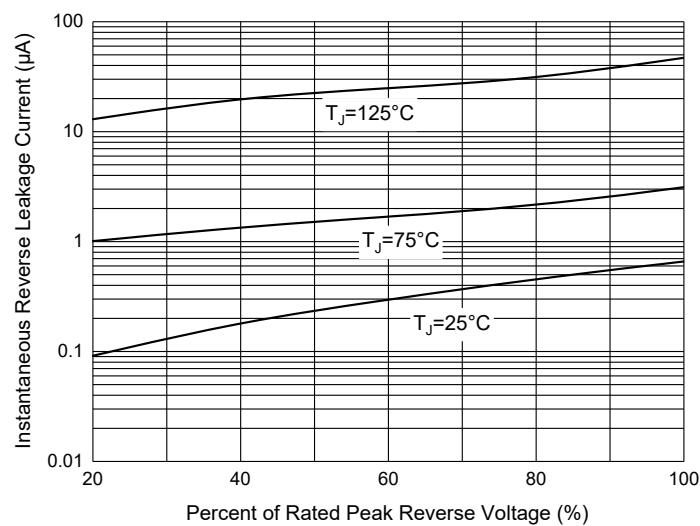Fig. 3 - Typical Instantaneous Forward Characteristics

Fig. 4 - Typical Reverse Leakage Characteristics

Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 1.2Kpcs/Reel
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box
Part Number-BP	Bulk:500pcs/Box,12Kpcs/Carton

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

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