

M·C·C·

Micro Commercial Components



Micro Commercial Components
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Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- High Current Capability and Low Current Leakage
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Glass Passivated Junction

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 30 °C/W Junction To Lead

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N5400GP	1N5400GP	50V	35V	50V
1N5401GP	1N5401GP	100V	70V	100V
1N5402GP	1N5402GP	200V	140V	200V
1N5404GP	1N5404GP	400V	280V	400V
1N5406GP	1N5406GP	600V	420V	600V
1N5407GP	1N5407GP	800V	560V	800V
1N5408GP	1N5408GP	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

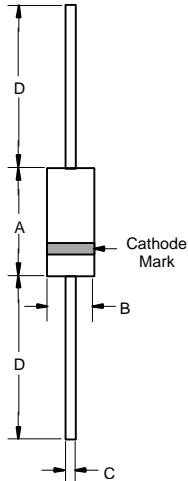
Average Forward Current	$I_{F(AV)}$	3.0A	$T_A = 105^\circ C$
Peak Forward Surge Current	I_{FSM}	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.1V	$I_{FM} = 3.0A$; $T_J = 25^\circ C^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	$5.0\mu A$ $50\mu A$	$T_J = 25^\circ C$ $T_J = 125^\circ C$
Typical Junction Capacitance	C_J	40pF	Measured at 1.0MHz, $V_R=4.0V$

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

**1N5400GP
THRU
1N5408GP**

**3 Amp Glass
Passivated Rectifier
50 - 1000 Volts**

DO-201AD



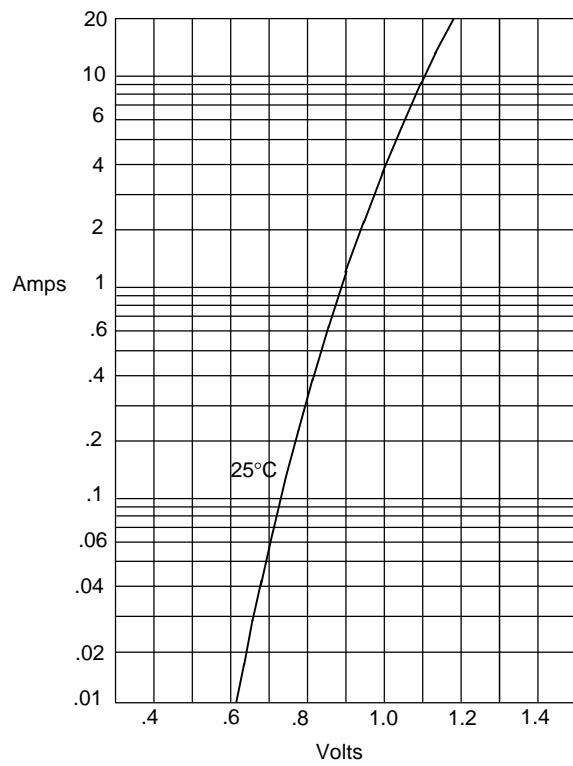
DIM	DIMENSIONS			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	.287	.374	7.30	9.50
B	.189	.208	4.80	5.30
C	.048	.052	1.20	1.30
D	1.000	---	25.40	---

1N5400GP thru 1N5408GP

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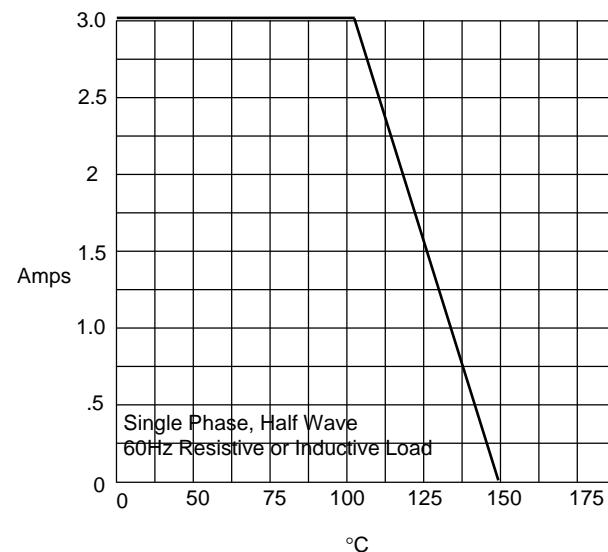
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Figure 1
Typical Forward Characteristics



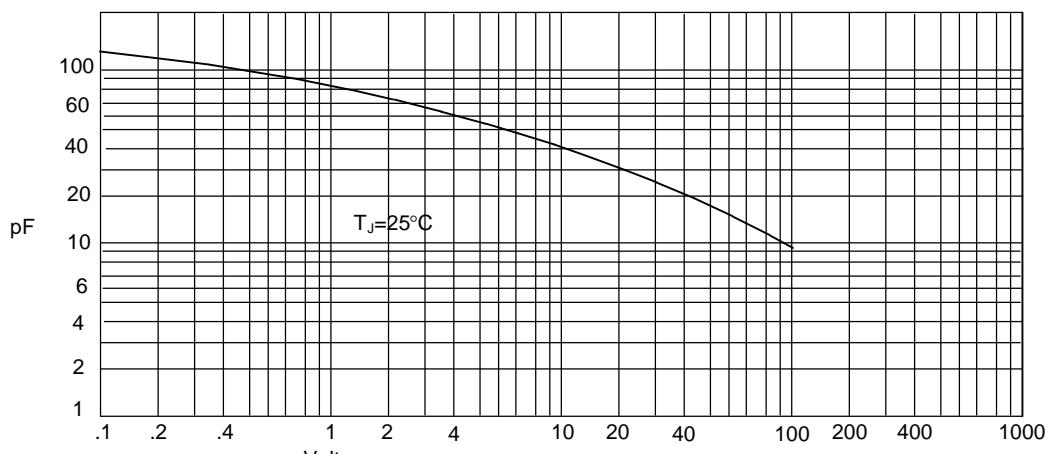
Instantaneous Forward Current - Amperesversus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperesversus
Ambient Temperature - °C

Figure 3
Junction Capacitance



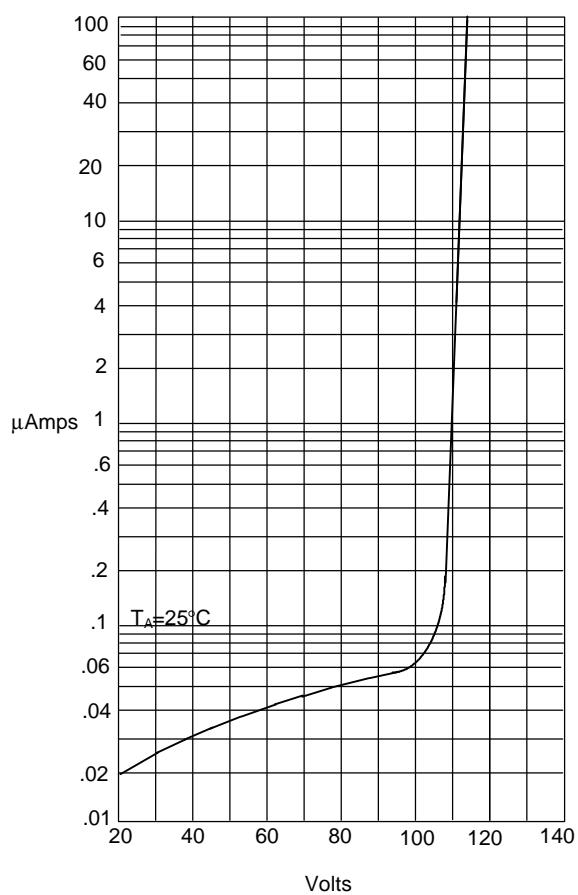
Junction Capacitance - pFversus
Reverse Voltage - Volts

1N5400GP thru 1N5408GP

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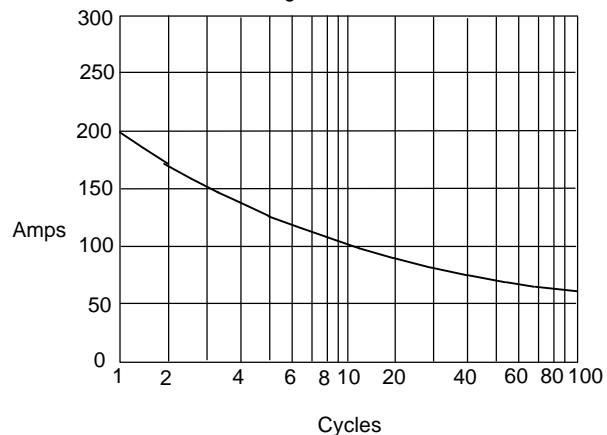
Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperesversus
Percent Of Rated Peak Reverse Voltage - Volts

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Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperesversus
Number Of Cycles At 60Hz - Cycles

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: 12Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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