

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

Features

- Halogen free available upon request by adding suffix "-HF"
- **Glass Passivated Junction**
- Low Current Leakage and Low Cost
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information) Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1 .

Maximum Ratings

- Operating Temperature: -55°C to +175°C
- Storage Temperature: -55°C to +175°C
- Maximum Thermal Resistance; 20 °C/W Junction To Lead

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N4001GP	1N4001GP	50V	35V	50V
1N4002GP	1N4002GP	100V	70V	100V
1N4003GP	1N4003GP	200V	140V	200V
1N4004GP	1N4004GP	400V	280V	400V
1N4005GP	1N4005GP	600V	420V	600V
1N4006GP	1N4006GP		560V	800V
1N4007GP	1N4007GP	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

I _{F(AV)}	1.0A	T _A = 75°C
I _{FSM}	30A	8.3ms, half sine
V _F	1.1V	I _{FM} = 1.0A;
		$T_J = 25^{\circ}C^*$
I _R	5.0μΑ	$T_J = 25^{\circ}C$
	50μΑ	T _J = 125°C
		-
CJ	15pF	Measured at
		1.0MHz, V _R =4.0V
Τ.,	2.0us	l _F =0.5A, I _R =1.0A,
• rr		I _{rr} =0.25A
	I _{FSM} V _F I _R	I _{FSM} 30A V _F 1.1V I _R 5.0µA C _J 15pF

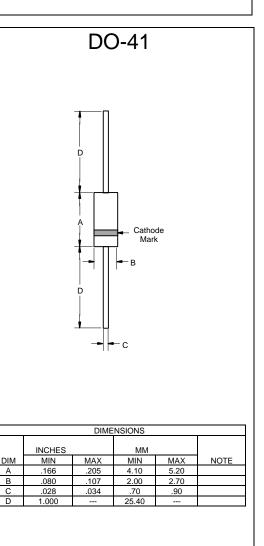
*Pulse test: Pulse width 300 µsec, Duty cycle 2% Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

www.mccsemi.com

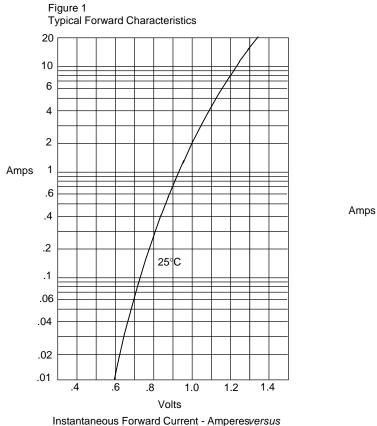
THRU 1N4007GP

1N4001GP

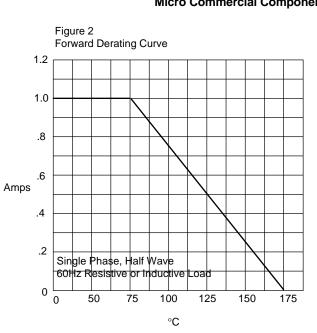
1 Amp Glass **PassivatedRectifier** 50 - 1000 Volts



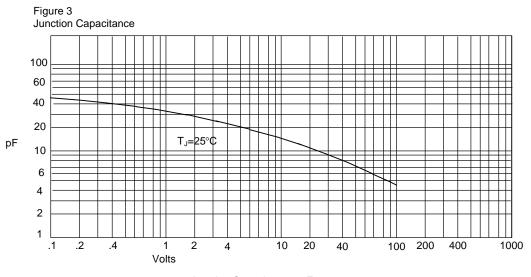
1N4001GP thru 1N4007GP



Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes/ersus Ambient Temperature $-^{\circ}C$



Junction Capacitance - pF*versus* Reverse Voltage - Volts

www.mccsemi.com

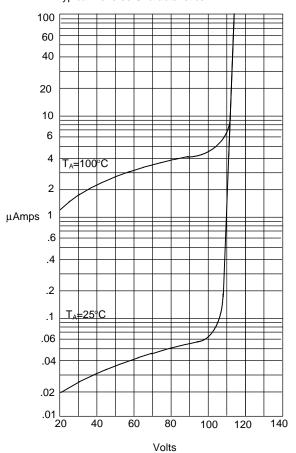


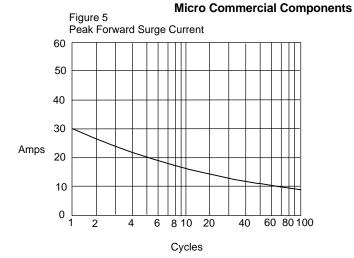
Micro Commercial Components

1N4001GP thru 1N4007GP



Figure 4 Typical Reverse Characteristics





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

Instantaneous Reverse Leakage Current - MicroAmperes versus Percent Of Rated Peak Reverse Voltage - Volts

www.mccsemi.com



Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box
Part Number-BP	Bulk: 50Kpcs/Carton

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

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com