

Micro Commercial Components



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Features

- Halogen free available upon request by adding suffix "-HF"
- Glass Passivated Junction
- 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 +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 20 °C/W Junction To Lead

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N4001GPL		Voltage 50V	35V	50V
1N4002GPL	1N4002GL	100V	70V	100V
1N4003GPL	1N4003GL	200V	140V	200V
1N4004GPL	1N4004GL	400V	280V	400V
1N4005GPL	1N4005GL	600V	420V	600V
1N4006GPL	1N4006GL	800V	560V	800V
1N4007GPL	1N4007GL	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

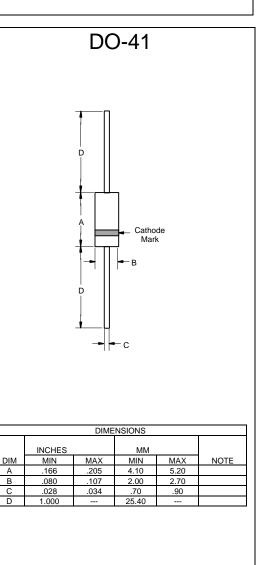
Average Forward Current	I _{F(AV)}	1.0A	T _A = 75°C	
Peak Forward Surge	I _{FSM}	30A	8.3ms, half sine	
Current				
Maximum				
Instantaneous	V _F	1.1V	I _{FM} = 1.0A;	
Forward Voltage			$T_J = 25^{\circ}C^*$	
Maximum DC				
Reverse Current At	I _R	5.0μΑ	T _J = 25°C	
Rated DC Blocking		50µA	T₁ = 125°C	
Voltage			0	
Typical Junction	CJ	15pF	Measured at	
Capacitance	°,		1.0MHz, V _R =4.0V	
Typical Reverse	T _{rr}	2.0µs	I _F =0.5A, I _R =1.0A,	
Recovery Time	, tt		I _{rr} =0.25Å	
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*Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

1N4001GPL THRU 1N4007GPL

1 Amp Glass Passivated Rectifier 50 - 1000 Volts

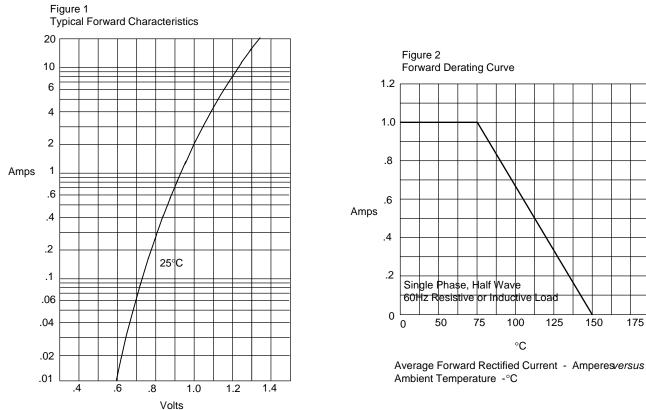


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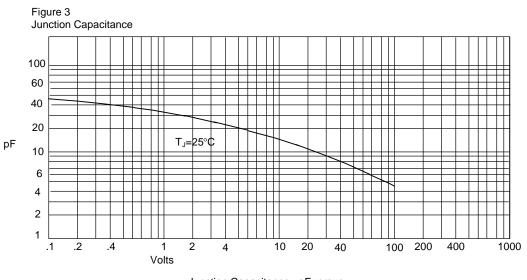
1N4001GPL thru 1N4007GPL



175



Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



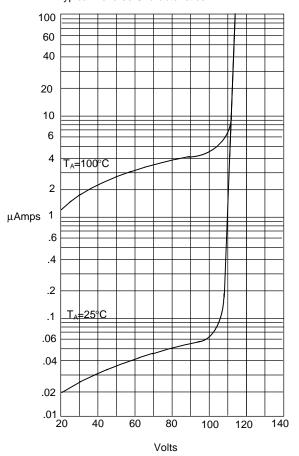
Junction Capacitance - pFversus Reverse Voltage - Volts

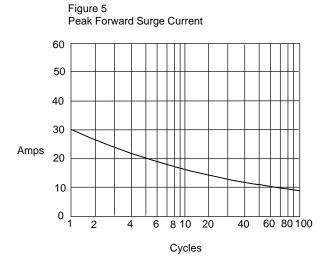
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1N4001GPL thru 1N4007GPL



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

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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

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