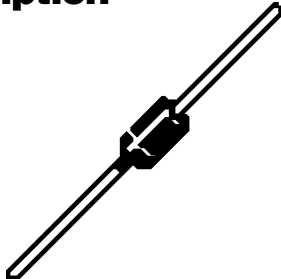
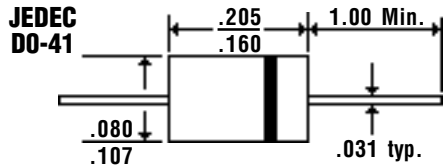


Description



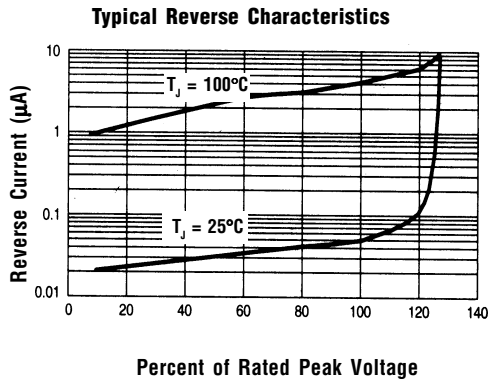
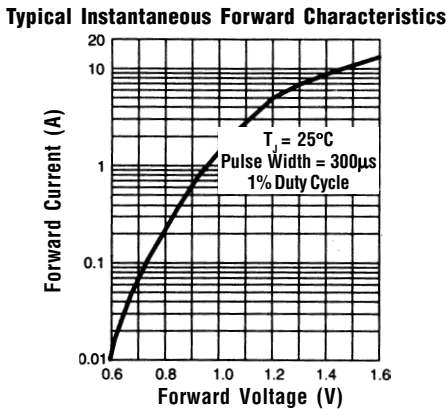
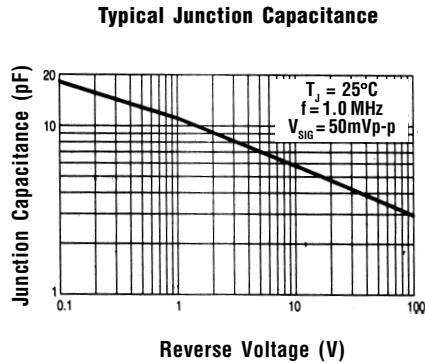
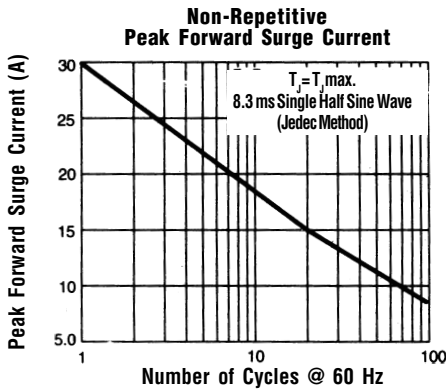
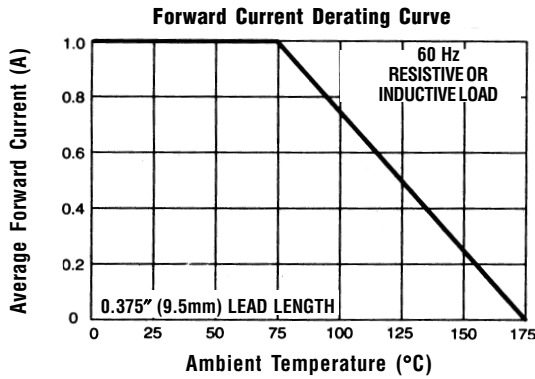
Mechanical Dimensions



Features

- HIGH TEMPERATURE METALLURGICALLY BONDED CONSTRUCTION
- CAPABILITY OF MEETING ENVIRONMENTAL STANDARDS OF MIL-S-19500
- SINTERED GLASS CAVITY-FREE JUNCTION

1N4001GP . . . 7GP Series								Units
Maximum Ratings	1N4001 GP	1N4002 GP	1N4003 GP	1N4004 GP	1N4005 GP	1N4006 GP	1N4007 GP	
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	700	Volts
DC Blocking Voltage... V_{DC}	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current... $I_{F(av)}$ 3/8" Lead Length @ $T_A = 75^\circ C$	.....			1.0	.....			Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} ½ Sine Wave Superimposed on Rated Load	.....			30	.....			Amps
Operating & Storage Temperature Range... T_J, T_{STRG}	.....			-65 to 175	.....			°C
Electrical Characteristics								
Maximum Forward Voltage @ 1.0A... V_F	.....			1.1	.....			Volts
Maximum Full Load Reverse Current... $I_R(av)$ Full Cycle Average @ $T_A = 75^\circ C$	.....			30	.....			µAmps
Maximum DC Reverse Current... I_R @ Rated DC Blocking Voltage	.....			5	.....			µAmps
	.....			50	.....			µAmps
Typical Junction Capacitance... C_J (Note 1)	.....			8.0	.....			pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	.....			45	.....			°C/W
Typical Reverse Recovery Time... t_{RR} (Note 3)	.....			2.0	.....			µs



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 Hz Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

- NOTES:**
1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
 2. Thermal Resistance from Junction to Ambient at 3/8" Lead Length, P.C. Board Mounted.
 3. Reverse Recovery Condition $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.