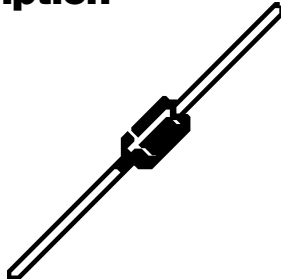
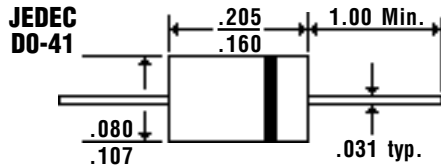


## Description



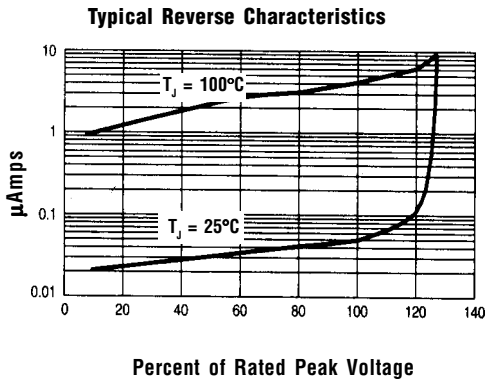
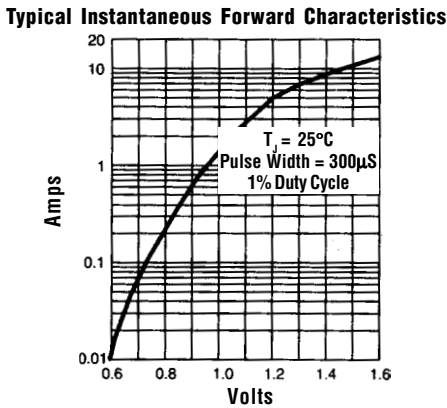
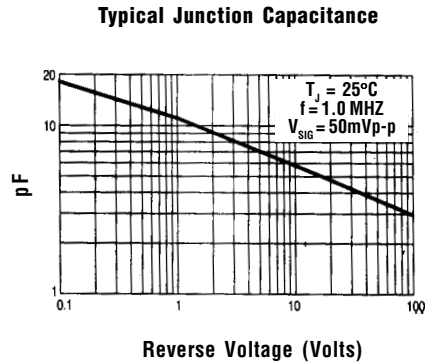
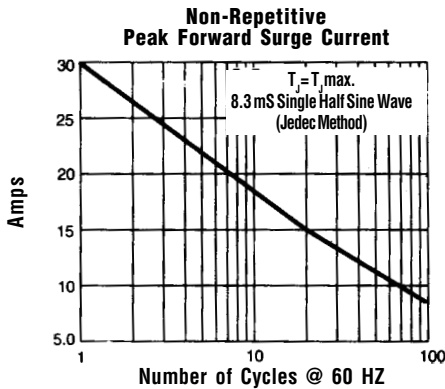
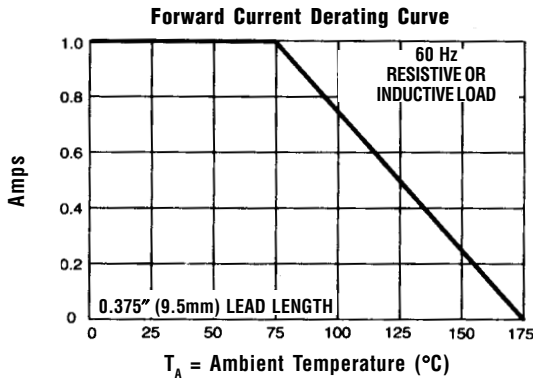
## Mechanical Dimensions



## Features

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

Electrical Characteristics @ 25°C.	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... $I_{F(av)}$ Current 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	
Forward Voltage @ 1.0A... $V_F$	.....			1.1	.....			Volts	
Full Load Reverse Current... $I_R(av)$ Full Cycle Average @ $T_A = 75^\circ C$	.....			30	.....			µAmps	
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	
Operating & Storage Temperature Range... $T_J, T_{STRG}$	.....			-65 to 175	.....			°C	



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  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $I_{RR} = 0.25A$ .