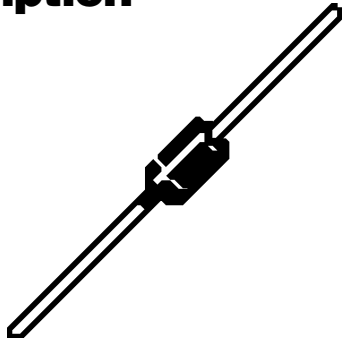
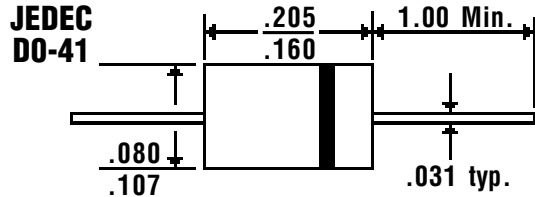


Description



Mechanical Dimensions

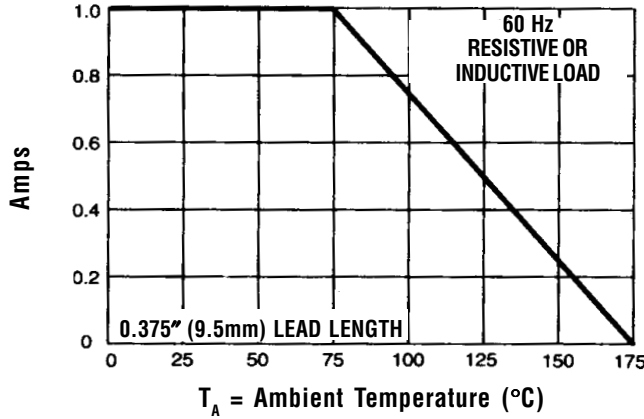


Features

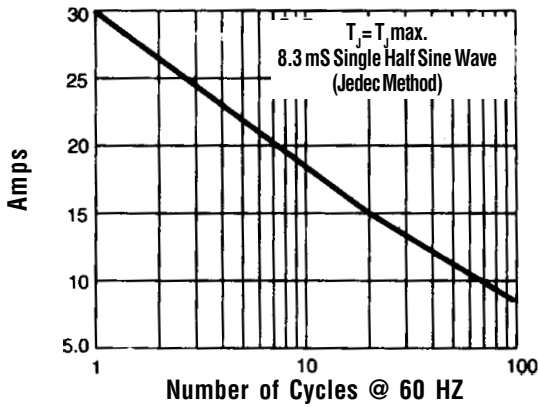
- HIGH TEMPERATURE METALLURGI-CALLY BONDED CONSTRUCTION
- SINTERED GLASS CAVITY-FREE JUNCTION
- CAPABILITY OF MEETING ENVIRONMENTAL STANDARDS OF MIL-S-19500

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

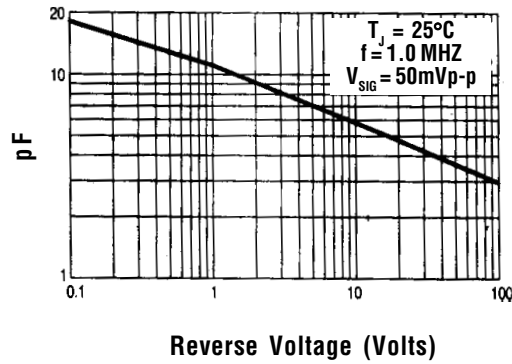
Forward Current Derating Curve



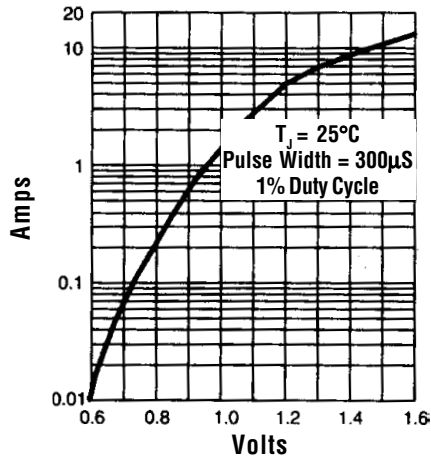
Non-Repetitive Peak Forward Surge Current



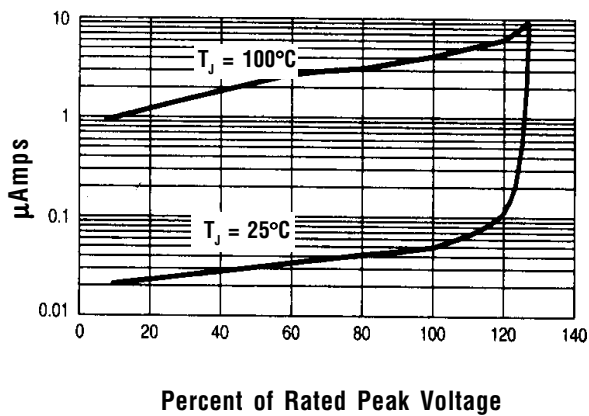
Typical Junction Capacitance



Typical Instantaneous Forward Characteristics



Typical Reverse Characteristics



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