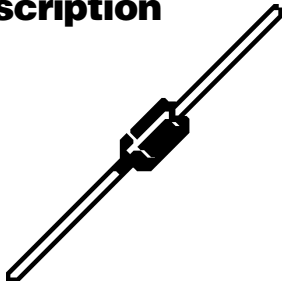
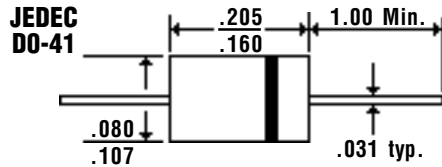


## Description



## Mechanical Dimensions

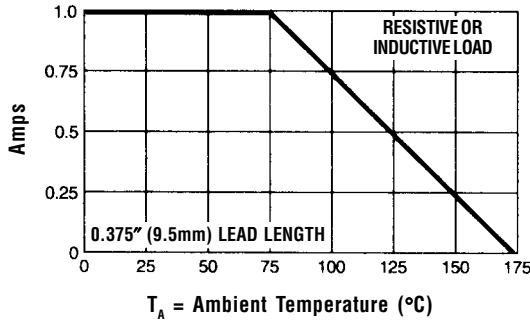


## Features

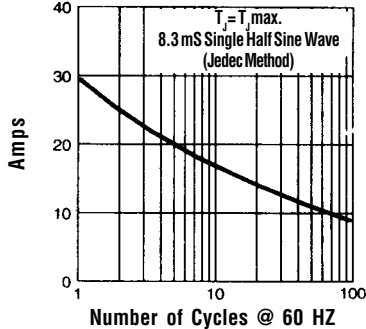
- HIGH TEMPERATURE METALLURGICALLY BONDED CONSTRUCTION
- SINTERED GLASS CAVITY-FREE JUNCTION
- 1.0 AMP OPERATION @  $T_A = 75^\circ\text{C}$ , WITH NO THERMAL RUNAWAY
- TYPICAL  $I_R < 0.1 \mu\text{Amp}$

Electrical Characteristics @ 25°C.	<b>1N4933GP . . . 37GP Series</b>					Units
Maximum Ratings	1N4933GP	1N4934GP	1N4935GP	1N4936GP	1N4937GP	
Peak Repetitive Reverse Voltage... $V_{RRM}$	50	100	200	400	600	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	Volts
DC Blocking Voltage... $V_{DC}$	50	100	200	400	600	Volts
Average Forward Rectified Current... $I_{F(av)}$ Current 3/8" Lead Length @ $T_A = 75^\circ\text{C}$	..... 1.0 .....					Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ 8.3ms, 1/2 Sine Wave Superimposed on Rated Load	..... 30 .....					Amps
Forward Voltage @ Rated Forward Current and 25°C... $V_F$	..... 1.2 .....					Volts
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$		$T_A = 125^\circ\text{C}$			
	..... 5.0 .....					$\mu\text{Amps}$
	..... 100 .....					$\mu\text{Amps}$
Typical Junction Capacitance... $C_J$ (Note 1)	..... 15 .....					pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	..... 55 .....					$^\circ\text{C} / \text{W}$
Typical Reverse Recovery Time... $t_{RR}$ (Note 3)	..... 200 .....					nS
Operating & Storage Temperature Range... $T_J, T_{STRG}$	..... -65 to 175 .....					$^\circ\text{C}$

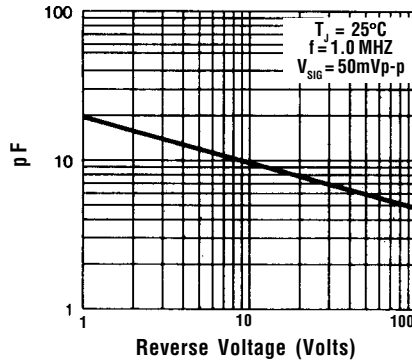
**Forward Current Derating Curve**



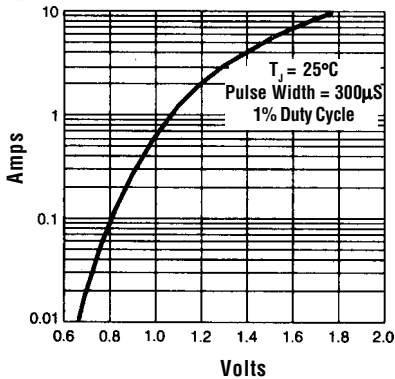
**Non-Repetitive  
Peak Forward Surge Current**



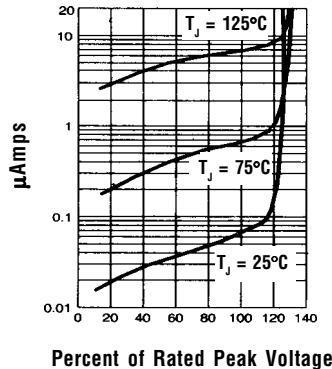
**Typical Junction Capacitance**



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