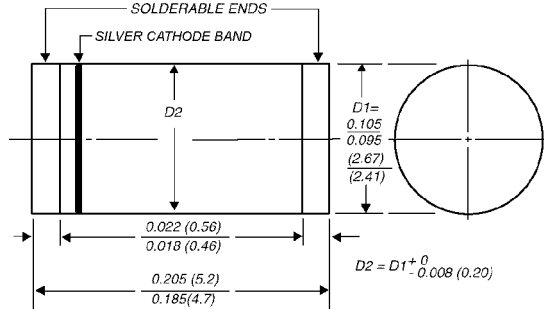


## Description

**DO-213AB**



## Mechanical Dimensions



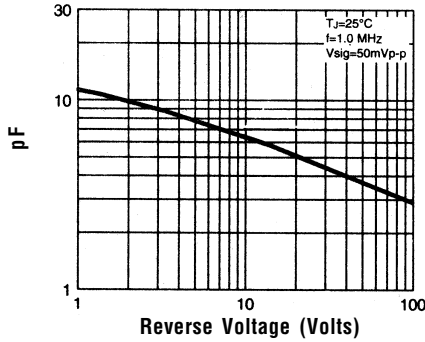
Dimensions in inches and (mm)

## Features

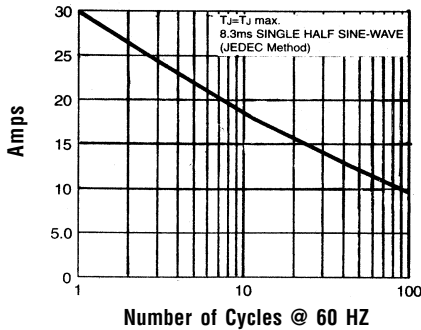
- **HIGH TEMPERATURE METALLURGICALLY BONDED CONSTRUCTION**
- **1.0 AMP OPERATION @  $T_A = 55^\circ\text{C}$ , WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**
- **TYPICAL  $I_R < 0.1 \mu\text{Amp}$**

Electrical Characteristics @ 25°C.	GL41A . . . 41M Series							Units	
Maximum Ratings	GL41A	GL41B	GL41D	GL41G	GL41J	GL41K	GL41M		
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 @ $T_A = 75^\circ\text{C}$				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	> < .....		1.2	>		Volts
Full Load Reverse Current... $I_R(av)$ Full Cycle Average @ $T_A = 75^\circ\text{C}$				30				$\mu\text{Amps}$	
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage			$T_A = 25^\circ\text{C}$	5.0				$\mu\text{Amps}$	
			$T_A = 125^\circ\text{C}$	50				$\mu\text{Amps}$	
Typical Junction Capacitance... $C_J$ (Note 1)				8.0				pF	
Typical Thermal Resistance... $R_{\theta JC}$ (Note 2)				75				$^\circ\text{C/W}$	
Operating & Storage Temperature Range... $T_J, T_{STRG}$				-65 to 175				$^\circ\text{C}$	

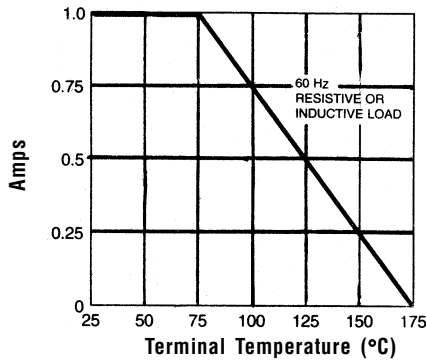
**Typical Junction Capacitance**



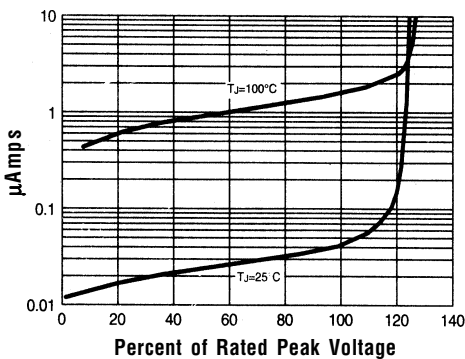
**Non-Repetitive Peak Forward Surge Current**



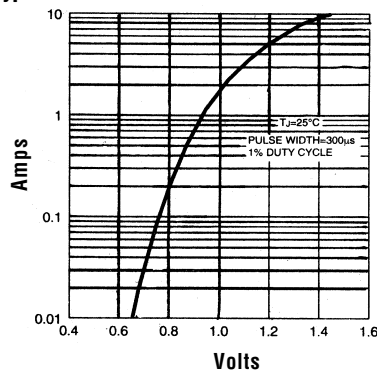
**Forward Current Derating Curve**



**Typical Reverse Characteristics**



**Typical Instantaneous Forward 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, 6.0mm' copper pad to each terminal.