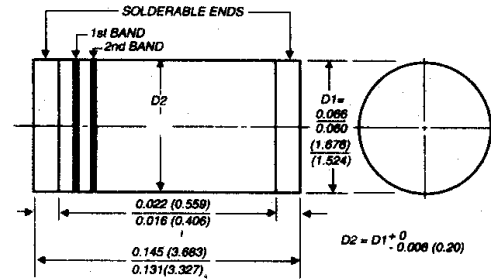


## Description



## Mechanical Dimensions



1st band denotes type and polarity  
2nd band denotes voltage type

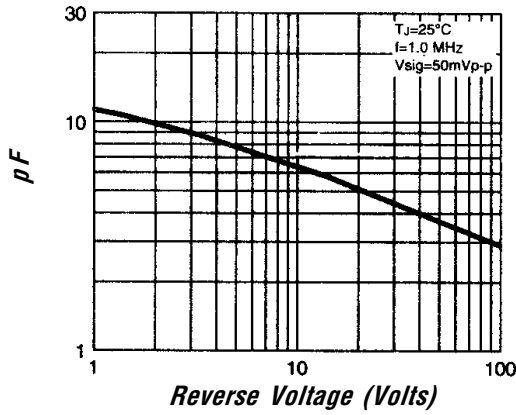
Dimensions in inches  
and (millimeters)

## Features

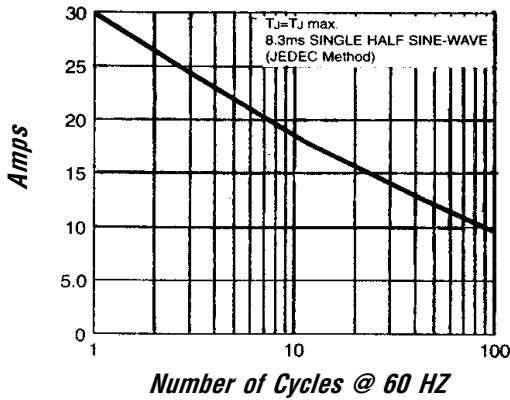
- HIGH TEMPERATURE METALLURGICALLY BONDED CONSTRUCTION
- SINTERED GLASS CAVITY-FREE JUNCTION
- 1.0 AMP OPERATION @  $T_A = 55^\circ\text{C}$ , WITH NO THERMAL RUNAWAY
- TYPICAL  $I_R < 0.1 \mu\text{Amp}$

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	.....			5.0	.....			$\mu\text{Amps}$
	.....			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	.....			$^\circ\text{C}$
Polarity Color Band (2nd Band)	Gray	Red	Orange	Yellow	Green	Blue	Violet	

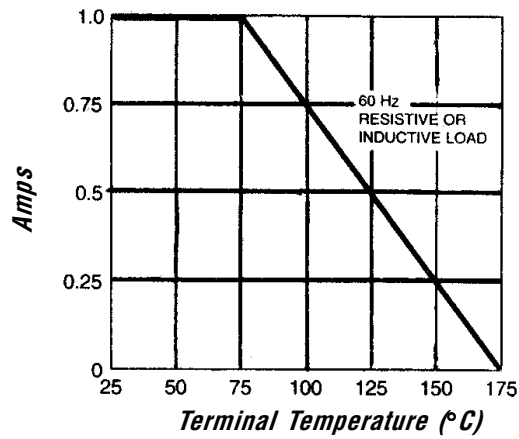
**Typical Junction Capacitance**



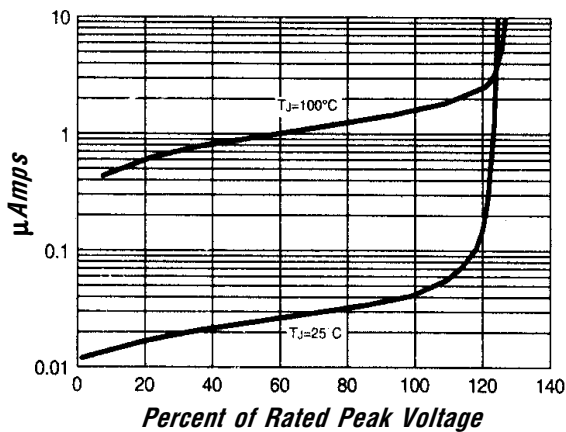
**Non-Repetitive Peak Forward Surge Current**



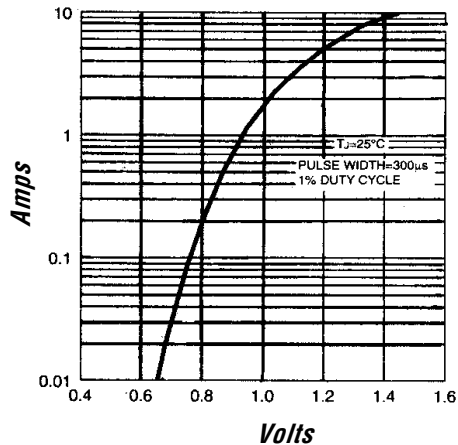
**Forward Current Derating Curve**



**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<sup>2</sup> copper pad to each terminal.