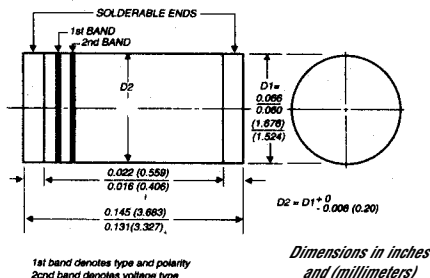


Description



Mechanical Dimensions

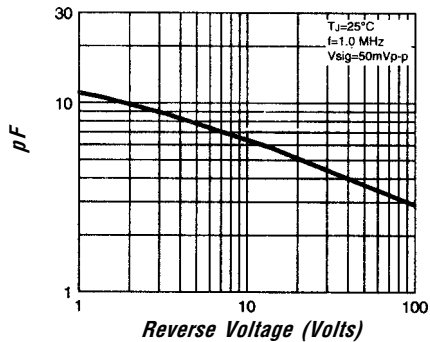


Features

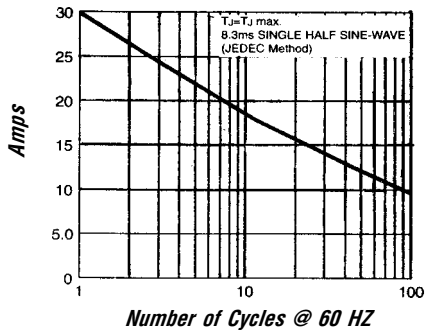
- **HIGH TEMPERATURE METALLURGICALLY BONDED CONSTRUCTION**
- **1.0 AMP OPERATION @ $T_A = 55^\circ\text{C}$, WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**
- **TYPICAL $I_R < 0.1 \mu\text{Amp}$**

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							μAmps
DC Reverse Current... I_R @ Rated DC Blocking Voltage								μAmps
$T_A = 25^\circ\text{C}$	5.0							μAmps
$T_A = 125^\circ\text{C}$	50							μAmps
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	

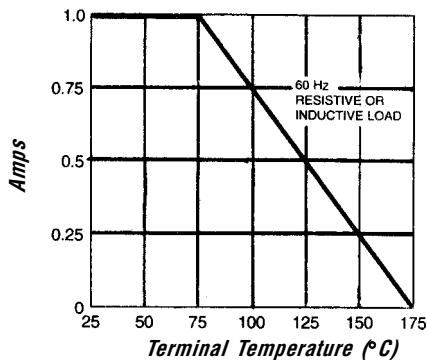
Typical Junction Capacitance



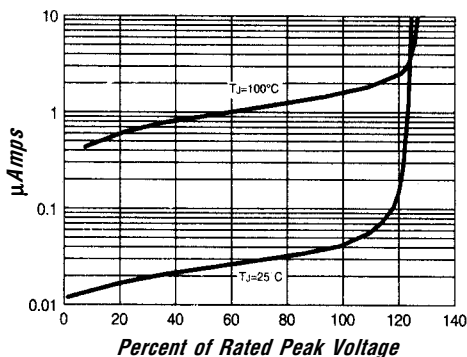
Non-Repetitive Peak Forward Surge Current



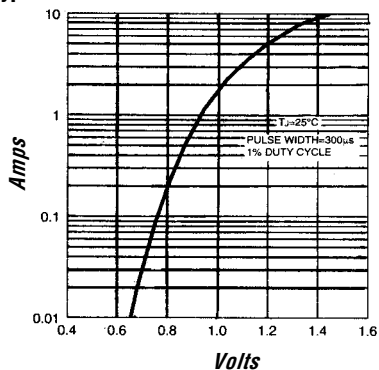
Forward Current Derating Curve



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' copper pad to each terminal.