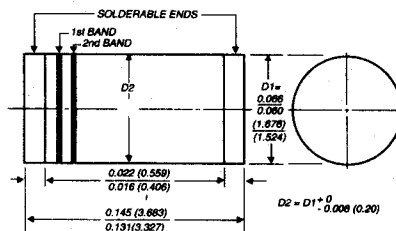


Description



Mechanical Dimensions



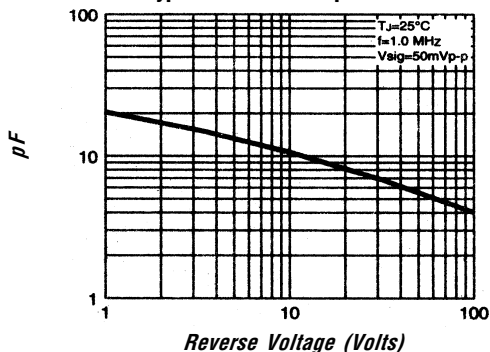
Dimensions in inches
and (millimeters)

Features

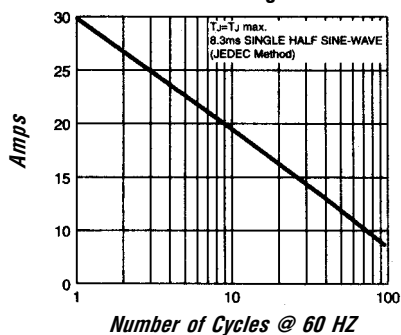
- **HIGH TEMPERATURE METALLURGI-
CALLY BONDED CONSTRUCTION**
- **1.0 AMP OPERATION @ $T_A = 55^\circ\text{C}$, WITH
NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE
JUNCTION**
- **MEETS UL SPECIFICATION 94V-0**

Electrical Characteristics @ 25°C.	RGL41A . . . 41M Series							Units
Maximum Ratings	RGL41A	RGL41B	RGL41D	RGL41G	RGL41J	RGL41K	RGL41M	
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				°C/W
Typical Reverse Recovery Time... t_{RR} (Note 3)	< 150 >			250	< 500 >			ns
Operating & Storage Temperature Range... T_J, T_{STRG}				-65 to 175				°C
Polarity Color Band (2nd Band)	Gray	Red	Orange	Yellow	Green	Blue	Violet	

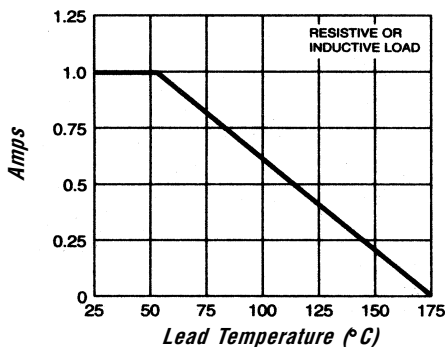
Typical Junction Capacitance



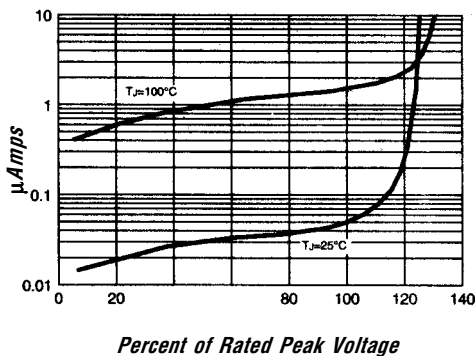
**Non-Repetitive
Peak Forward Surge Current**



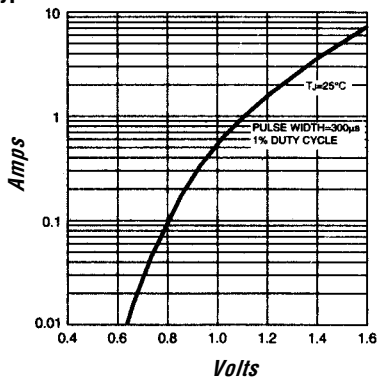
Forward Current Derating Curve



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 and from Junction to Lead, P.C.B. Mounted on 0.2" x 0.2" (5.0 x 5.0 mm) Copper Pad Areas.
 3. Reverse Recovery Condition $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.