

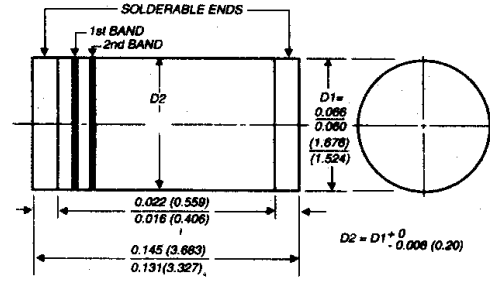
1.0 Amp FAST SWITCHING MEGARECTIFIERS

RGL41A...41M Series

Description



Mechanical Dimensions



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

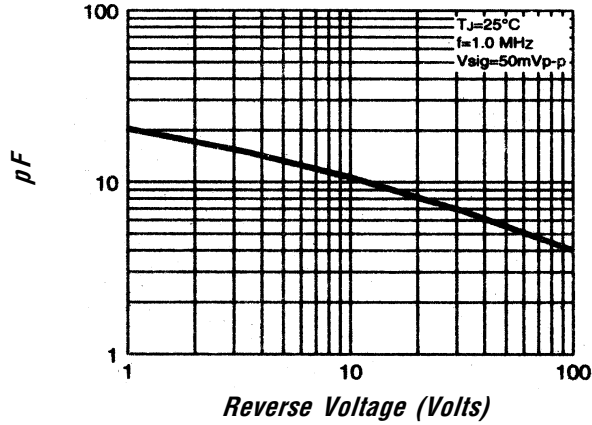
Dimensions in inches
and (millimeters)

Features

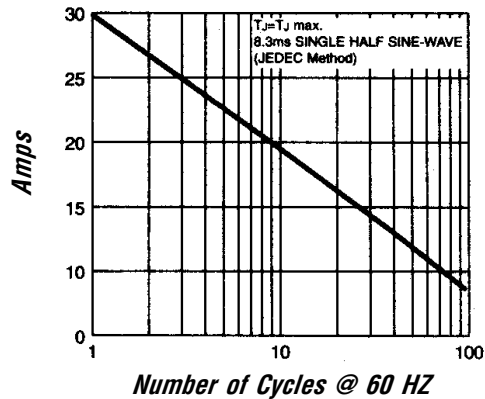
- HIGH TEMPERATURE METALLURGICALLY BONDED CONSTRUCTION
- SINTERED GLASS CAVITY-FREE JUNCTION
- 1.0 AMP OPERATION @ $T_A = 55^\circ\text{C}$, WITH NO THERMAL RUNAWAY
- MEETS UL SPECIFICATION 94V-0

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	.....			5.0	.....				µAmps
	.....			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		

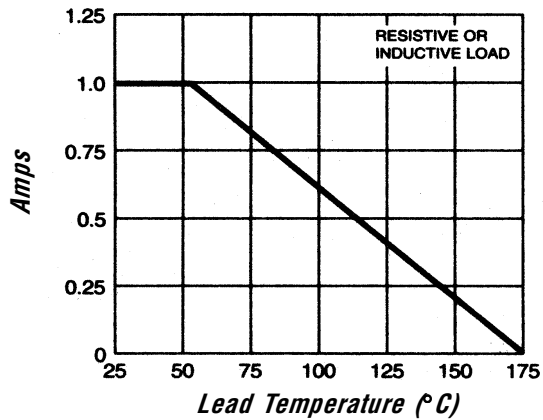
Typical Junction Capacitance



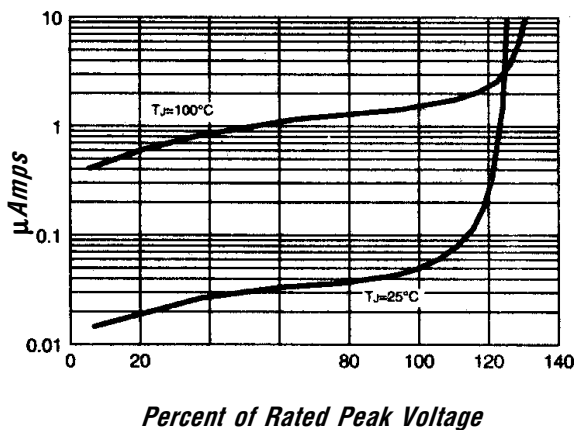
Non-Repetitive Peak Forward Surge Current



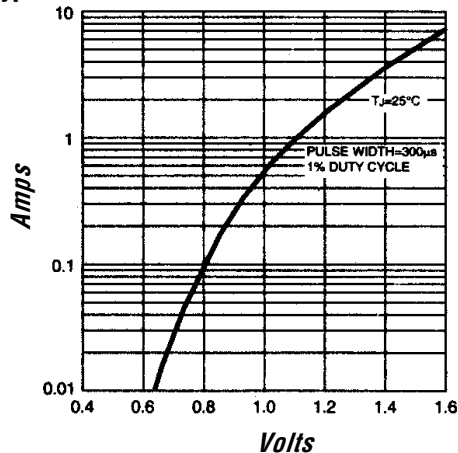
Forward Current Derating Curve



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