Semiconductor

Data Sheet

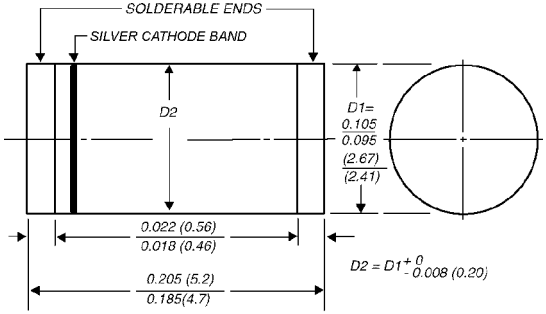
1.0 Amp MEGARECTIFIERS

GL41A...41M Series

Description

DO-213AB

Mechanical Dimensions



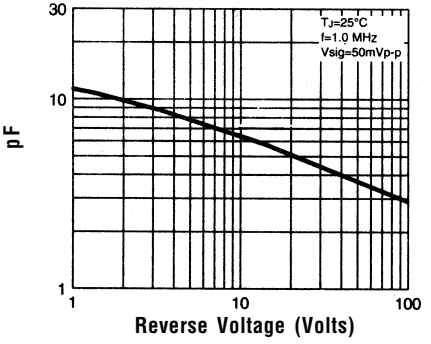
Dimensions in inches and (mm)

Features

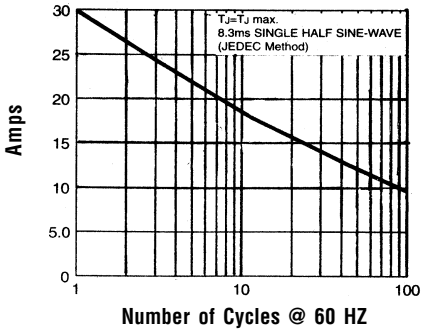
- **HIGH TEMPERATURE METALLURGICALLY BONDED CONSTRUCTION**
- **1.0 AMP OPERATION @ T_A = 55°C, WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**
- **TYPICAL I_R < 0.1 μAmp**

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°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°C	..... 30							μAmps
DC Reverse Current...I_R @ Rated DC Blocking Voltage T_A = 25°C	..... 5.0							μAmps
T_A = 125°C	..... 50							μAmps
Typical Junction Capacitance...C_J *(Note 1)*	..... 8.0							pF
Typical Thermal Resistance...$R_{\theta JC}$ *(Note 2)*	..... 75							°C/W
Operating & Storage Temperature Range...T_J, T_{STRG}	..... -65 to 175							°C

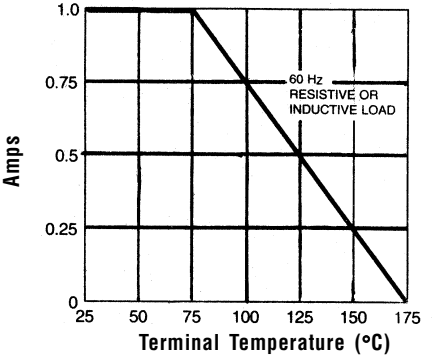
Typical Junction Capacitance



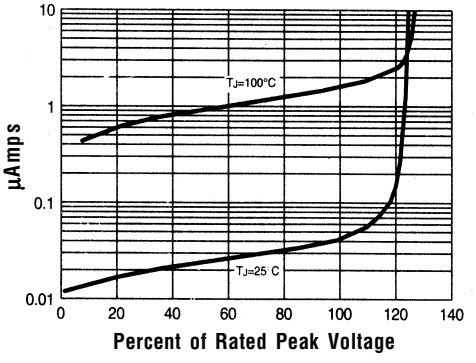
Non-Repetitive Peak Forward Surge Current



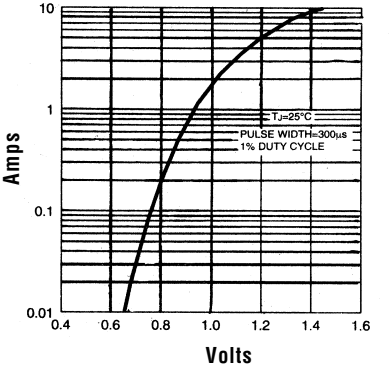
Forward Current Derating Curve



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.