Semiconductor

Data Sheet

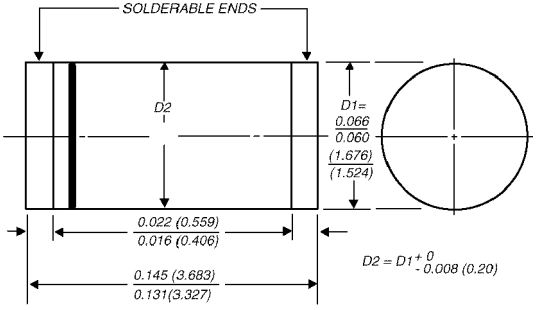
0.5 Amp Silicon Passivated Rectifiers

GL34A . . . 34J Series

Description

DO-213AA

Mechanical Dimensions



Dimensions in inches and (mm)

Features

- **LOW COST**
- **CASE: MOLDED PLASTIC**
- **0.5 AMP OPERATION @ T_A = 75°C, WITH NO THERMAL RUNAWAY**
- **LOW LEAKAGE CURRENT**

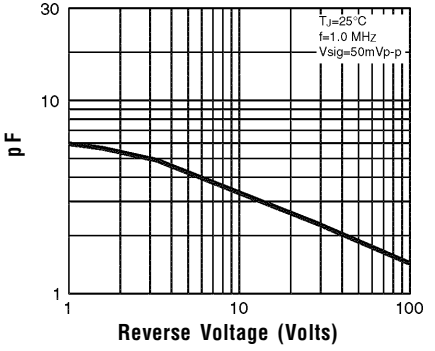
Electrical Characteristics @ 25°C.	***GL34A . . . 34J Series***					**Units**
Maximum Ratings	**GL34A**	**GL34B**	**GL34D**	**GL34G**	**GL34J**	
Peak Repetitive Reverse Voltage...V_{RRM}	50	100	200	400	600	Volts
RMS Reverse Voltage...$V_{R(rms)}$	35	70	140	280	420	Volts
DC Blocking Voltage...V_{DC}	50	100	200	400	600	Volts
Average Forward Rectified Current...$I_{F(av)}$ @ T_A = 75°C	..... 1.0					Amps
Peak Forward Surge Current...I_{FSM} 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	..... 10.0					Amps
Max. Full Load Reverse Current...$I_{R(AV)}$ Full Cycle Average @ T_A = 55°C	..... 50.0					µAmps
Max. InstantaneousForward Voltage @ 1.0A...V_F	..... 1.1					Volts
Max. DC Reverse Current...I_R @ Rated DC Blocking Voltage T_A = 25°C	..... 5.0					µAmps
T_A = 125°C	..... 250					µAmps
Typical Junction Capacitance...C_J *(Note 1)*	..... 4.0					pF
Max. Thermal Resistance...$R_{\theta JC}$ *(Note 2)*	..... 70.0					°C/W
Max. Thermal Resistance...$R_{\theta JA}$ *(Note 3)*	..... 125.0					°C/W
Operating & Storage Temperature Range...T_J, T_{STRG}	..... -65 to 125					°C

Semiconductor *Data Sheet*

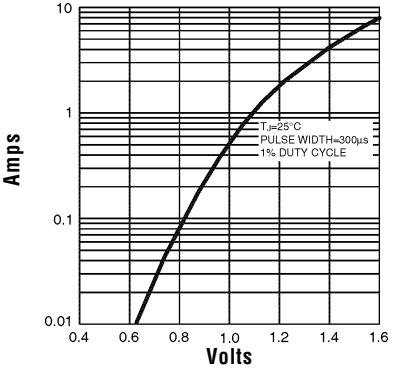
0.5 Amp Silicon Passivated Rectifiers

GL34A . . . 34J Series

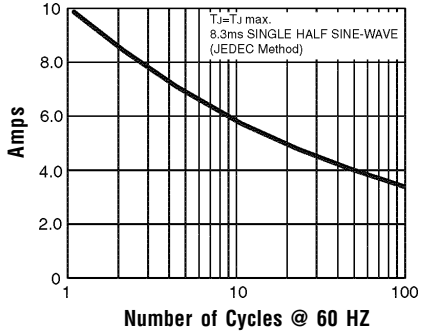
Typical Junction Capacitance



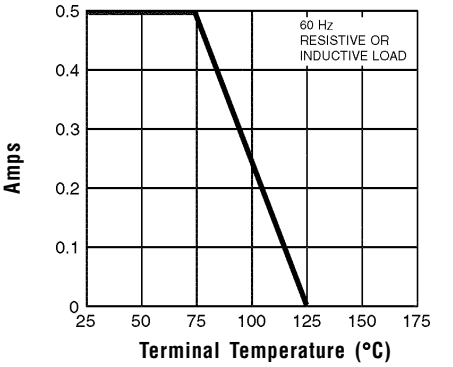
Typical Instantaneous Forward Characteristics



Non-Repetitive Peak Forward Surge Current



Forward Current Derating Curve



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 Junction to Case, 5.0mm^2 copper pad to each terminal.
3. Thermal Resistance Junction to Ambient, 5.0mm^2 copper pad to each terminal.