



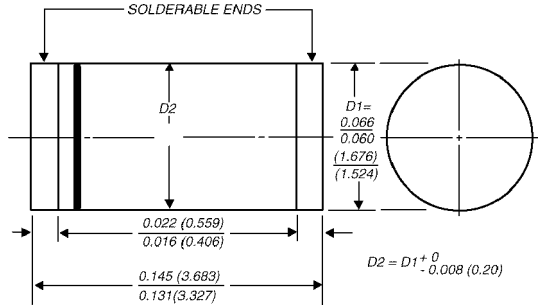
Description

0.5 Amp Silicon Passivated Rectifiers

Mechanical Dimensions

GL34A . . . 34J Series

DO-213AA



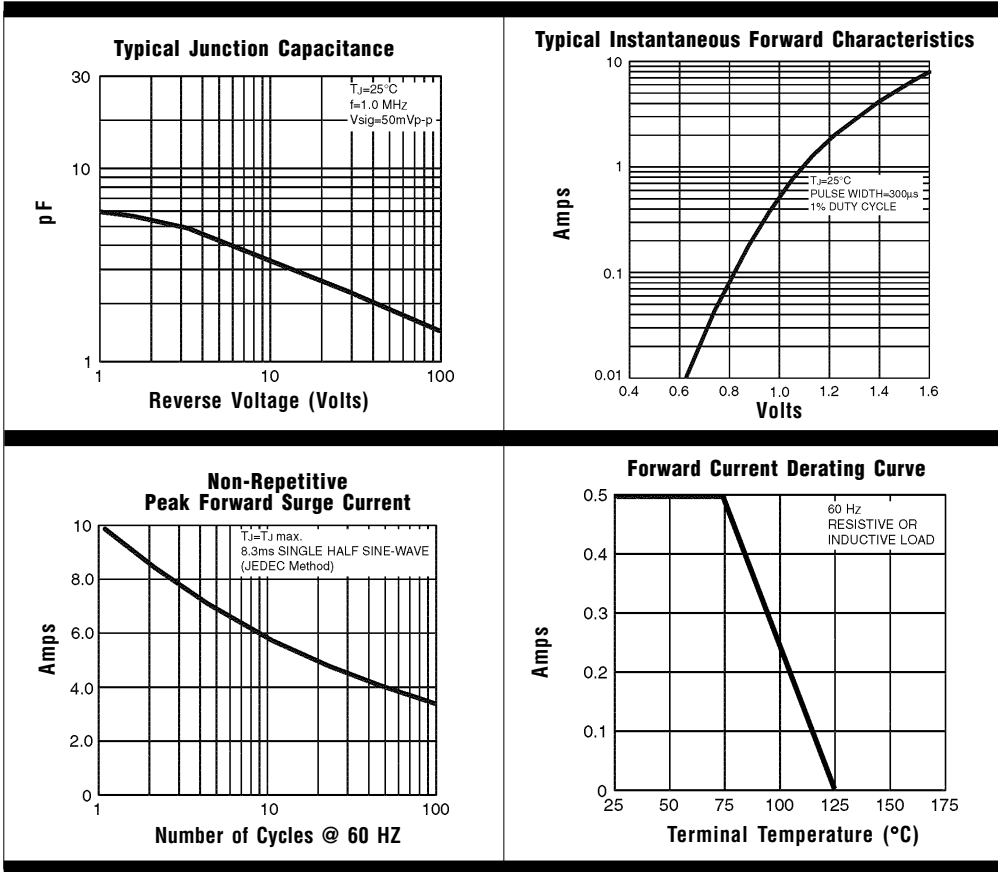
Features

- LOW COST
- CASE: MOLDED PLASTIC
- 0.5 AMP OPERATION @  $T_A = 75^\circ\text{C}$ , 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... $I_{F(av)}$ @ $T_A = 75^\circ\text{C}$	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 @ $T_A = 55^\circ\text{C}$	50.0					$\mu\text{Amps}$
Max. Instantaneous Forward Voltage @ 1.0A... $V_F$	1.1					Volts
Max. DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$		$T_A = 125^\circ\text{C}$			$\mu\text{Amps}$
Typical Junction Capacitance... $C_J$ (Note 1)	4.0		250			pF
Max. Thermal Resistance... $R_{\theta JC}$ (Note 2)	70.0					$^\circ\text{C/W}$
Max. Thermal Resistance... $R_{\theta JA}$ (Note 3)	125.0					$^\circ\text{C/W}$
Operating & Storage Temperature Range... $T_J, T_{STRG}$	-65 to 125					$^\circ\text{C}$

# 0.5 Amp Silicon Passivated Rectifiers

**GL34A . . . 34J Series**



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,  $5.0\text{mm}^2$  copper pad to each terminal.
  3. Thermal Resistance Junction to Ambient,  $5.0\text{mm}^2$  copper pad to each terminal.