

GL34A THRU GL34M

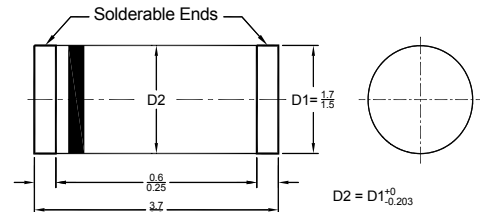
Surface Mount Glass Passivated Rectifiers

Reverse Voltage - 50 to 1000 V

Forward Current - 0.5 A

Features

- Low power loss, high efficient
- High surge current capability
- Low forward voltage drop
- For use in low voltage, high frequency inverters, free wheeling application
- Guarding for over voltage protection



MiniMELF (DO-213AA) Plastic Package
Dimensions in millimeters

Mechanical Data

- Case: MiniMELF(DO-213AA), molded plastic body
- Terminals: Plated terminal
- Polarity: Color band denotes cathode end
- Mounting Position: Any

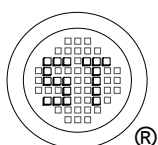
Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	GL34A	GL34B	GL34D	GL34G	GL34J	GL34K	GL34M	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_J = 75^\circ\text{C}$	$I_{F(AV)}$	0.5							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	25							A
Maximum Forward Voltage at 0.5 A	V_F	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$	I_R	5 250							μA
Typical Junction Capacitance ¹⁾	C_J	4							pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	125							$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{stg}	- 55 to + 150							$^\circ\text{C}$

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V

²⁾ Thermal resistance from junction to ambient.



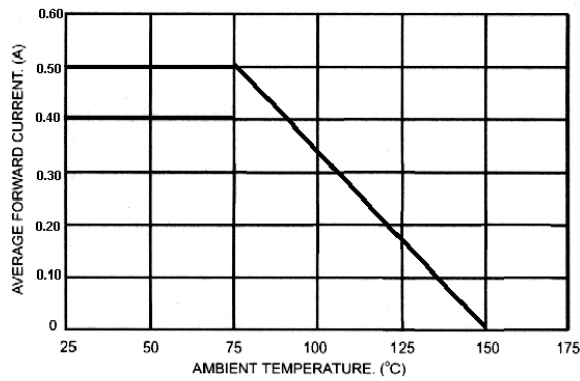
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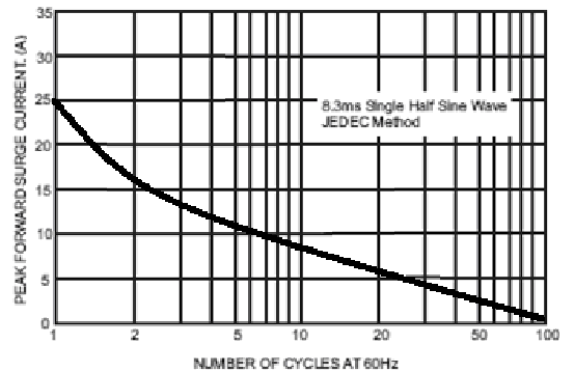
Dated : 17/01/2011 N Rev:01

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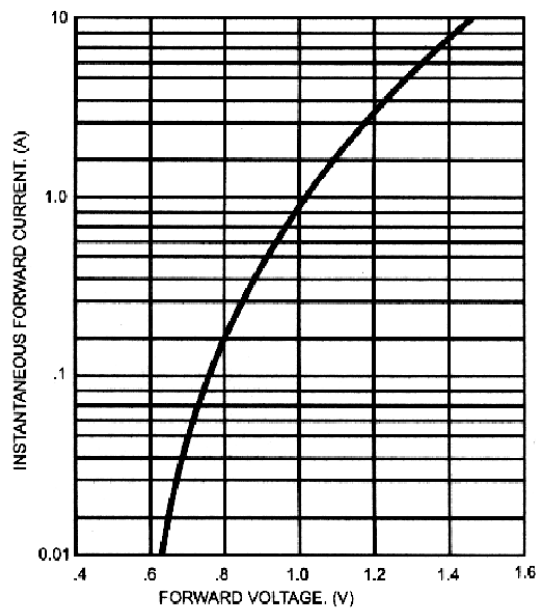
DERATING CURVE FOR OUTPUT
RECTIFIER CURRENT



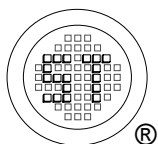
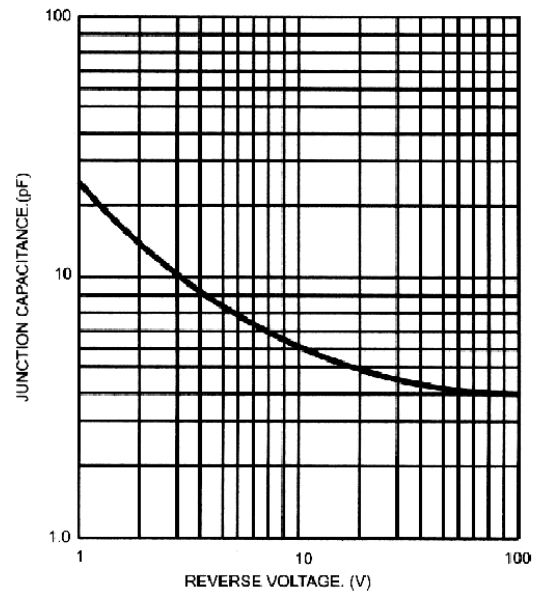
MAXIMUM NON - REPETITIVE PEAK
FORWARD SURGE CURRENT



TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS



TYPICAL JUNCTION CAPACITANCE



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