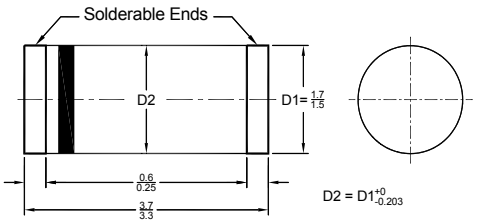
GL34A THRU GL34M

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

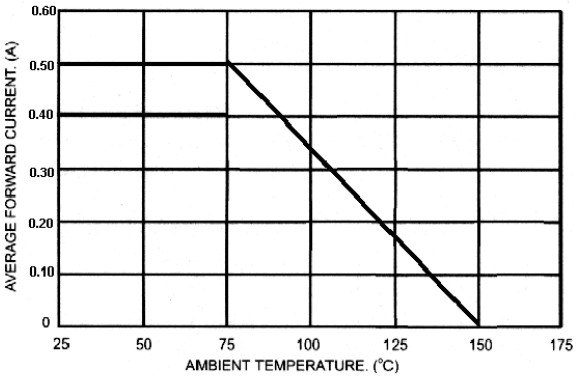
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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_T = 75 °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 °C / T_A = 125 °C	I_R	5 / 250							μA
Typical Junction Capacitance [1]	C_J	4							pF
Typical Thermal Resistance [2]	$R_{\theta JA}$	125							°C/W
Operating and Storage Temperature Range	T_j,T_{stg}	- 55 to + 150							°C

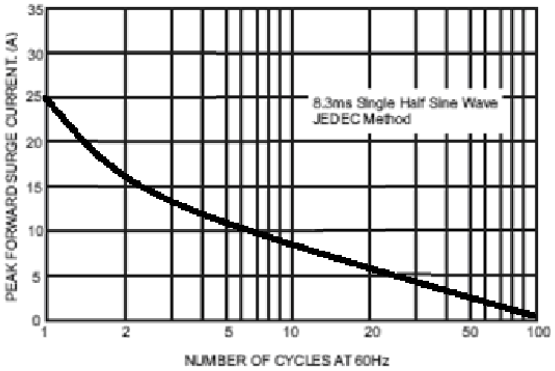
[1] Measured at 1 MHz and applied reverse voltage of 4 V

[2] Thermal resistance from junction to ambient.

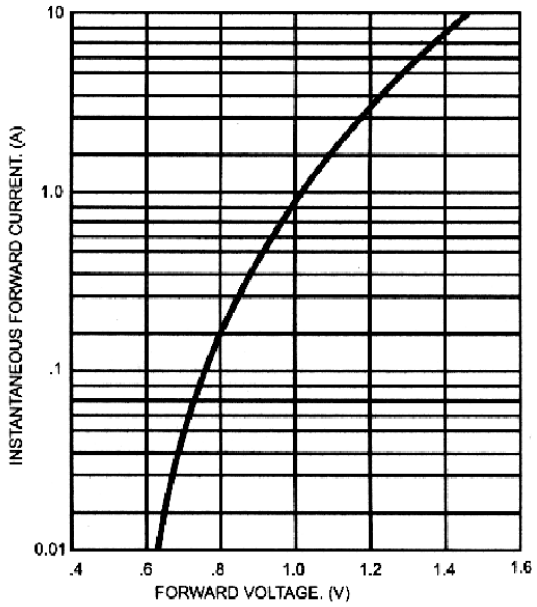
DERATING CURVE FOR OUTPUT RECTIFIER CURRENT



MAXIMUM NON - REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



TYPICAL JUNCTION CAPACITANCE