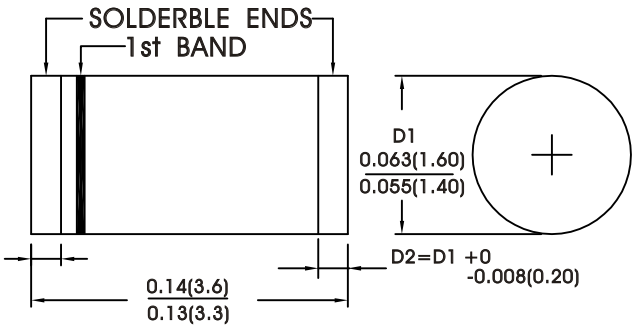
GL34A THRU GL34M

SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

FEATURES:

- Ideal for printed circuit bord
- Low forward voltage drop
- Low leakage current
- Plastic case MiniMELF
- High temperature soldering guarantee: 250℃/10sec.

MINIMELF/DO-213AA



1st band denotes type positrve and (cathode)

MECHANICAL DATA

Case: Plastic material has UL calssification 94V-0
Terminals: Solder plated, solderable per MIL-STD-705F, Method 2026
Polarity: Indicated by cathode band
Mounting Position: Any
Weight:0.0036 grams

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Characteristic	Symbol	GL 34A	GL 34B	GL 34D	GL 34G	GL 34J	GL 34K	GL 34M	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at T_T=75℃	I_O	0.5							Amps
Peak forward surge current,8.3ms single half sine-wave Ta=25 °C	I_{FSM}	10							Amps
Maximum instantaneous forward voltage drop per leg bridge element at IF=0.5 ADC	V_F	1.1							Volts
Maximum DC reverse current Ta=25℃ Maximum DC blocking voltage Ta=125℃	I_R	5 100							μA
Typical junction capacitance (NOTE 1)	C_J	4.0							PF
Maximum thermal resistance (NOTE 2)	$R_{\theta JA}$ $R_{\theta JT}$	125 70							℃/W
Operating temperature range	T_J	-65 to+175							℃
Storage temperature range	Tstg	-65 to+175							℃

NOTES:
(1)Measured at 1.0MHZ and applied reverse voltage of 4.0 voltage
(2)Thermal resistance from ambient,,0.2x0.2"(5.0x5.0mm)copper pads to each terminal

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

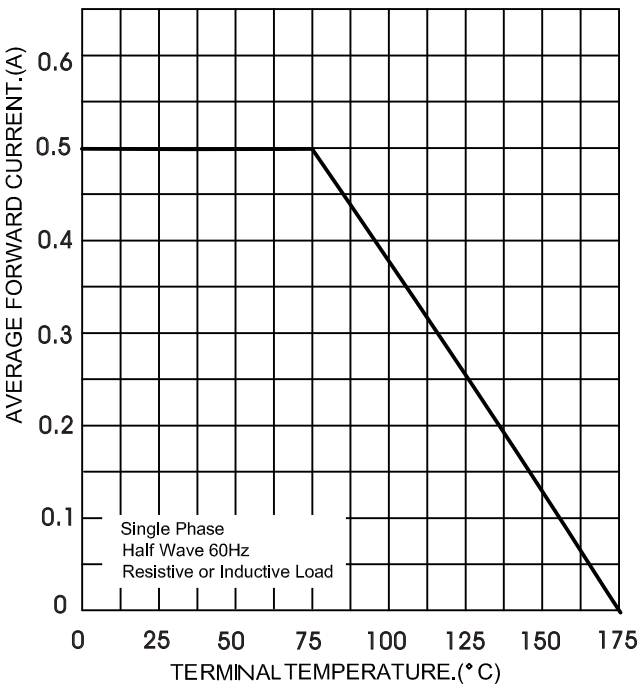


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

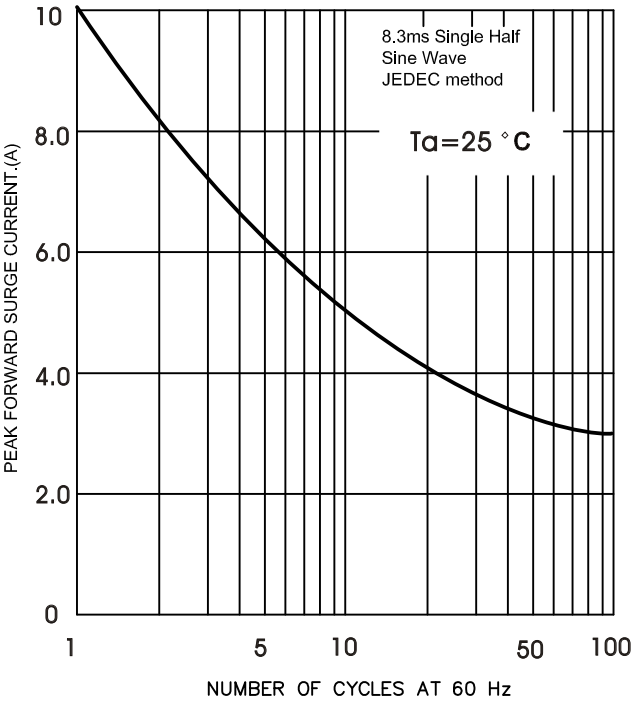


FIG.3-TYPICAL FORWARD CHARACTERISTICS

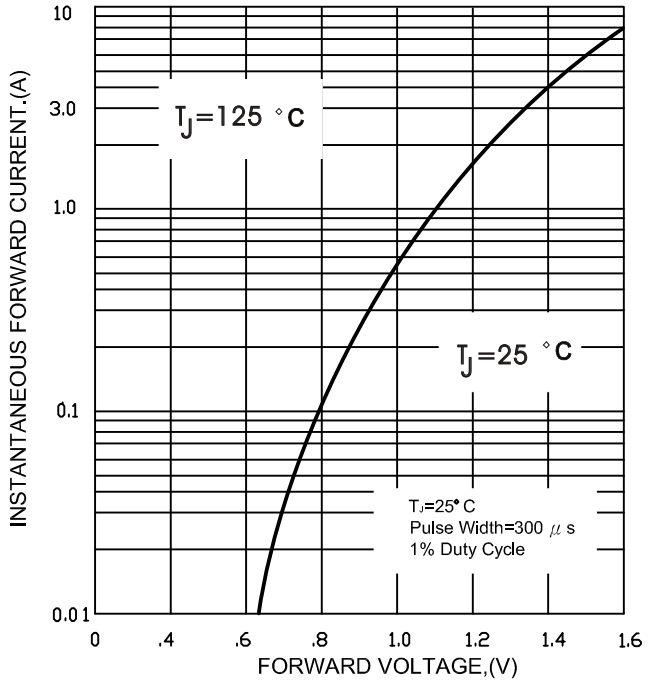


FIG.4-TYPICAL REVERSE CHARACTERISTICS