

GL34A THRU GL34M

SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

FEATURES:

- Ideal for printed circuit board
- Low forward voltage drop
- Low leakage current
- Plastic case MINIMELF
- High temperature soldering guarantee:
250°C/10sec.

MINIMELF/DO-213AA

MECHANICAL DATA

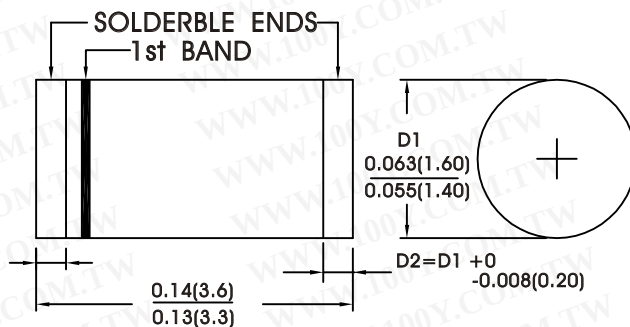
Case: Plastic material has UL classification 94V-0

Terminals: Solder plated, solderable per
MIL-STD-705F, Method 2026

Polarity: Indicated by cathode band

Mounting Position: Any

Weight: 0.0036 grams



1st band denotes type positive and (cathode)

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	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at $T_J = 75^\circ\text{C}$	I_O	0.5							Amps
Peak forward surge current, 8.3ms single half sine-wave $T_a = 25^\circ\text{C}$	I_{FSM}	10							Amps
Maximum instantaneous forward voltage drop per leg bridge element at $I_F = 0.5 \text{ ADC}$	V_F	1.1							Volts
Maximum DC reverse current $T_a = 25^\circ\text{C}$ Maximum DC blocking voltage $T_a = 125^\circ\text{C}$	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							$^\circ\text{C}/\text{W}$
Operating temperature range	T_J	-65 to +175							$^\circ\text{C}$
Storage temperature range	T_{stg}	-65 to +175							$^\circ\text{C}$

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

RATINGS AND CHARACTERISTIC CURVES GL34A THRU GL34M

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

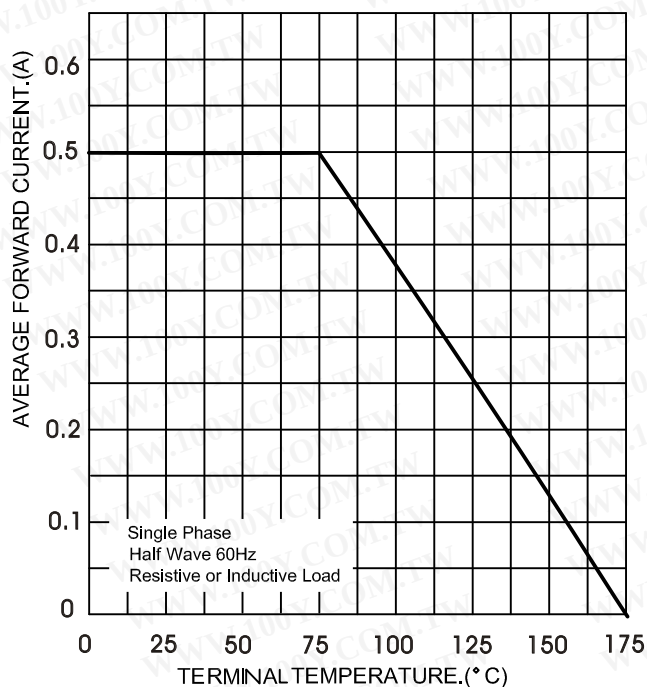


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

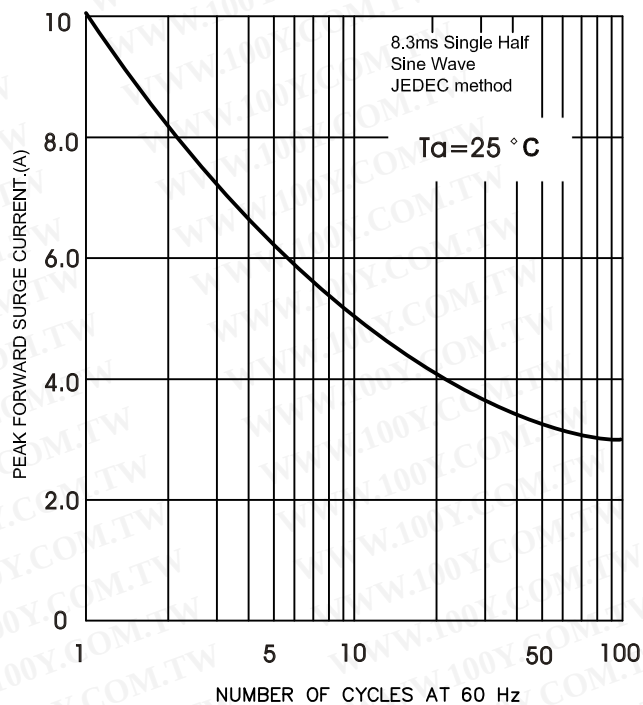


FIG.3-TYPICAL FORWARD CHARACTERISTICS

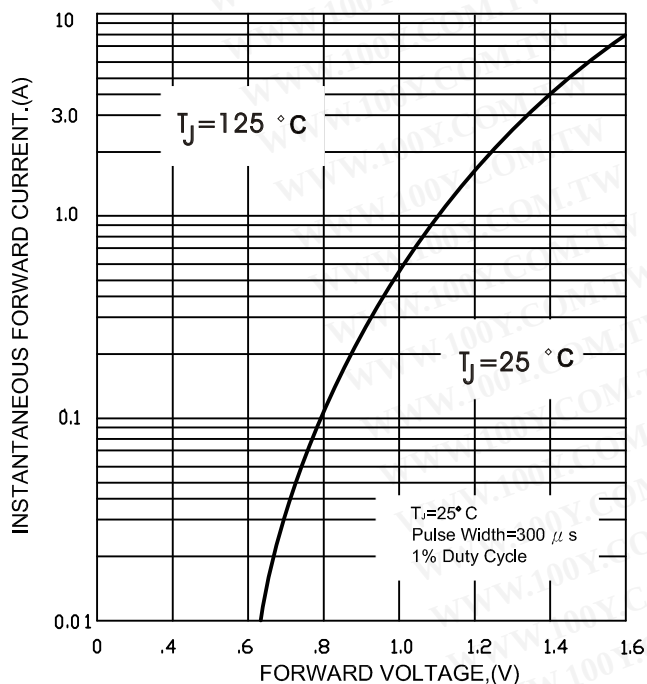


FIG.4-TYPICAL REVERSE CHARACTERISTICS

