

GL41Y

PRV : 1600 Volts
Io : 1.0 Ampere

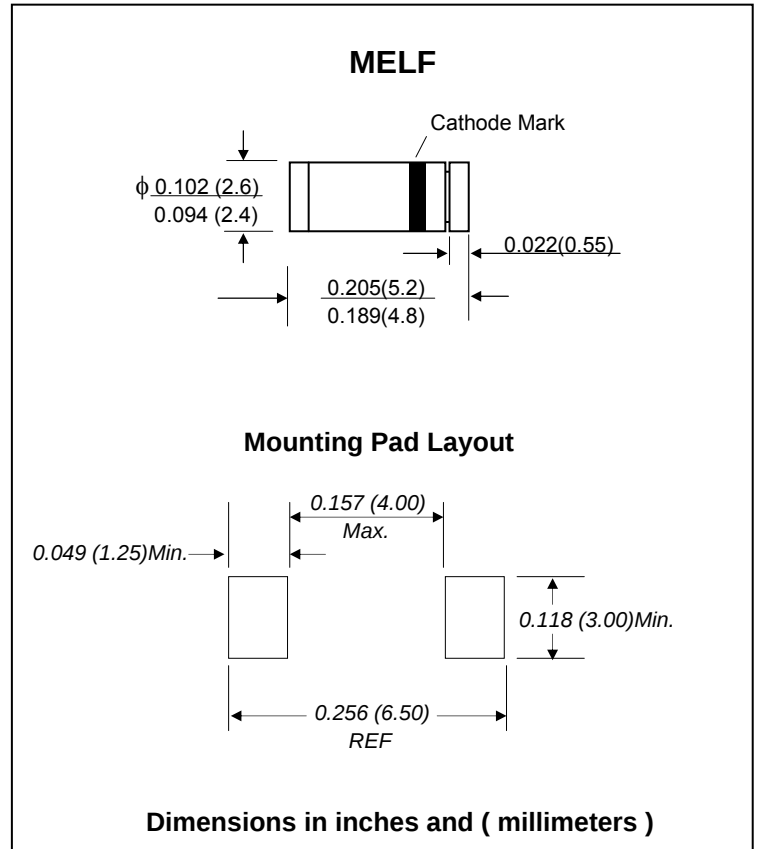
FEATURES :

- * Glass passivated junction chip
- * High current capability
- * High reliability
- * Low reverse current
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : MELF Glass Case
- * Weight : 0.25 g (approximately)

GLASS PASSIVATED JUNCTION SILICON RECTIFIER



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%.

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1600	V
Maximum RMS Voltage	V_{RMS}	1120	V
Maximum DC Blocking Voltage	V_{DC}	1600	V
Maximum Average Forward Current	$I_{F(AV)}$	1.0	A
Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	30	A
Maximum Forward Voltage at $I_F = 1.0$ Amp.	V_F	1.2	V
Maximum DC Reverse Current $T_a = 25\text{ }^{\circ}\text{C}$	I_R	10	μA
at rated DC Blocking Voltage $T_a = 125\text{ }^{\circ}\text{C}$	$I_{R(H)}$	50	μA
Maximum Junction Capacitance (Note1)	C_J	8.0	pF
Maximum Thermal Resistance (Note2)	$R_{\theta JA}$	75	$^{\circ}\text{C/W}$
Junction 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 1.0 MHz and applied reverse voltage of 4.0VDC
 (2) Thermal resistance from Junction to Ambient at 0.24 × 0.24" (6.0 × 6.0 mm) copper pads to each terminal.

RATING AND CHARACTERISTIC CURVES (GL41Y)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

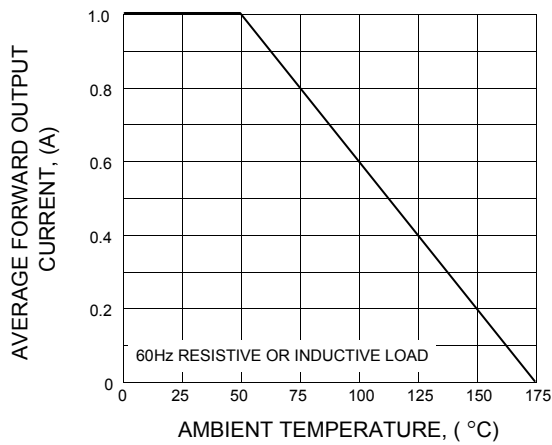


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

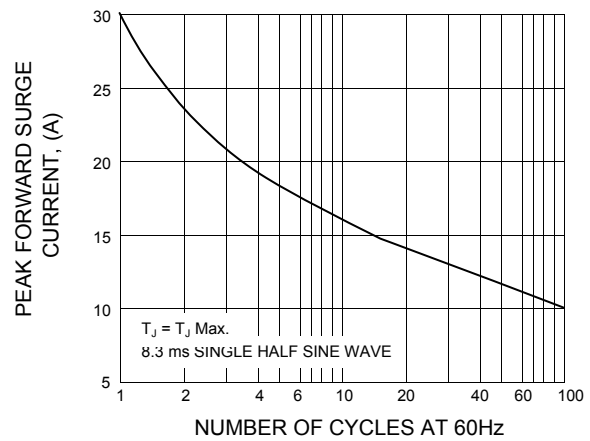


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

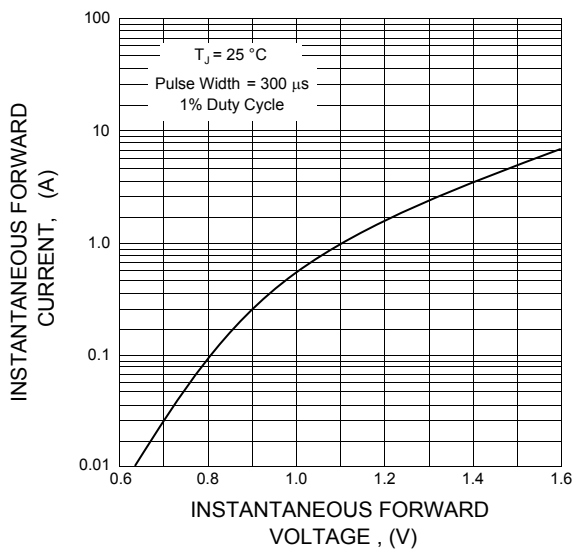


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

