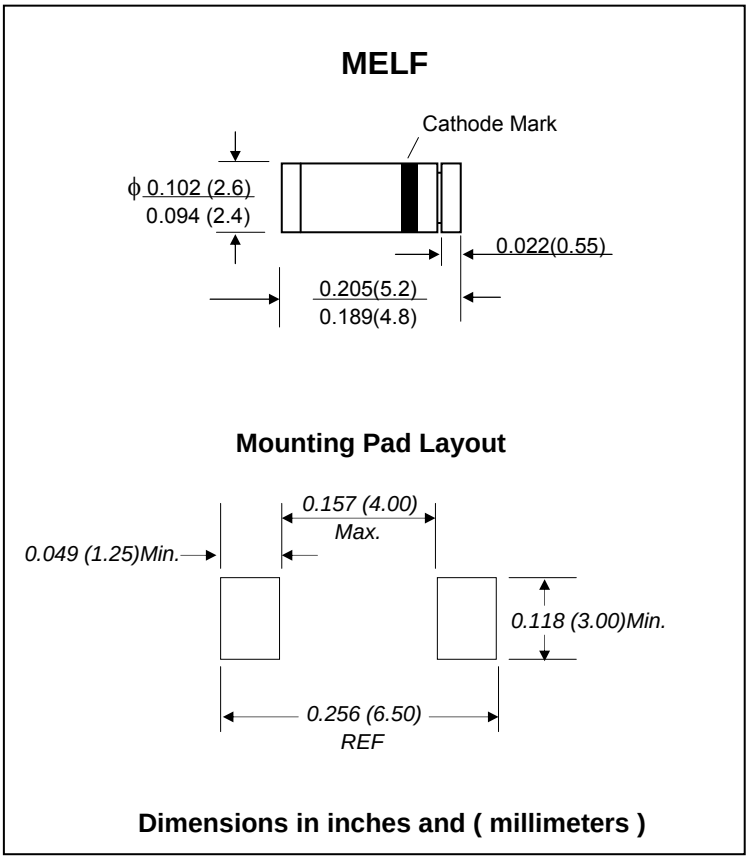
GL41Y

GLASS PASSIVATED JUNCTION SILICON RECTIFIER

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)

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 Ta = 25 °C	I_R	10	μA
at rated DC Blocking Voltage Ta = 125 °C	$I_{R(H)}$	50	μA
Maximum Junction Capacitance (Note1)	C_J	8.0	pF
Maximum Thermal Resistance (Note2)	$R_{\theta JA}$	75	°C/W
Junction Temperature Range	T_J	- 65 to + 175	°C
Storage Temperature Range	T_{STG}	- 65 to + 175	°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

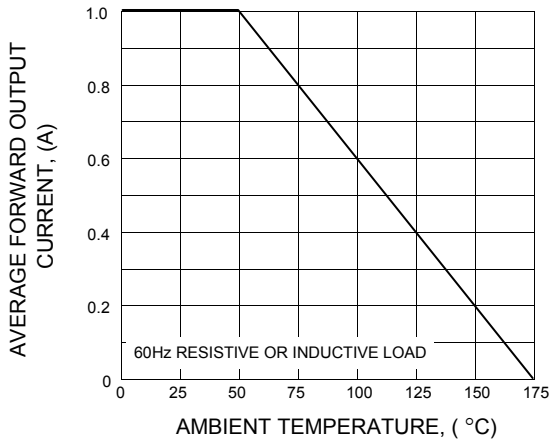


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

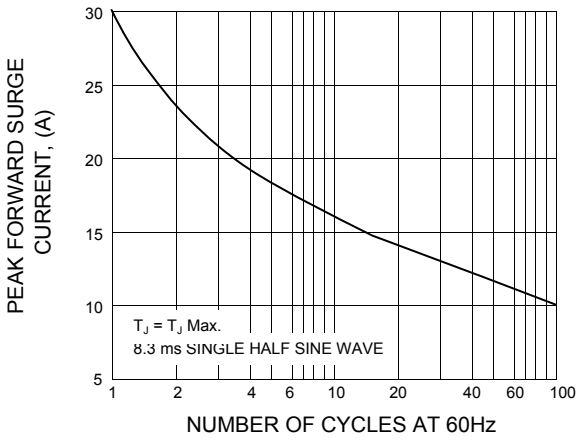


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

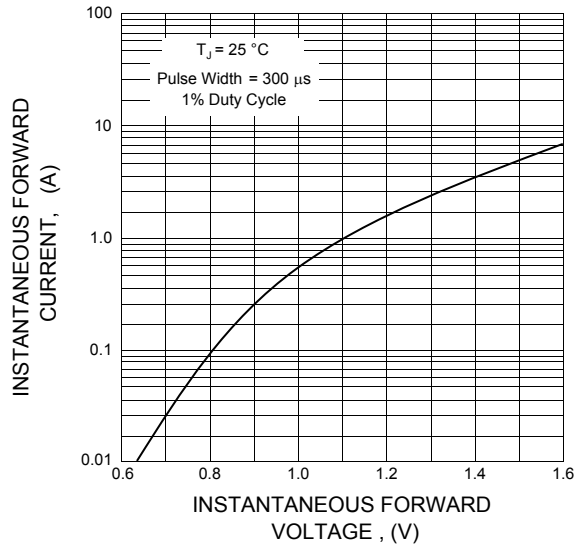


FIG.4 - TYPICAL REVERSE CHARACTERISTICS