

1N5407GL

GLASS PASSIVATED JUNCTION RECTIFIER

VOLTAGE: 800V

CURRENT: 3.0A



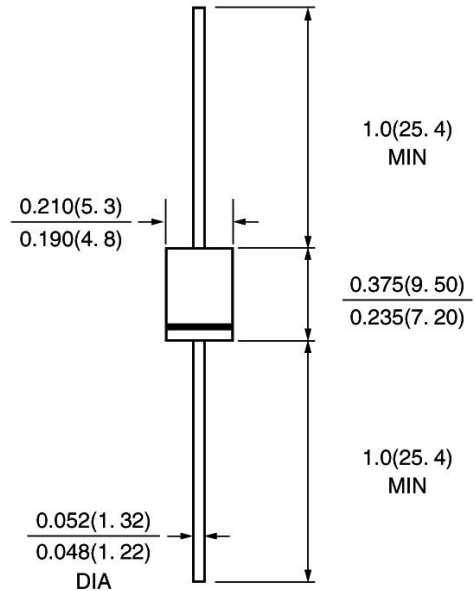
FEATURE

Molded case feature for auto insertion
High current capability
Low leakage current
High surge capability
High temperature soldering guaranteed
260°C /10sec/0.375" lead length
Glass Passivated chip

MECHANICAL DATA

Terminal: Plated axial leads solderable per J-STD-002
Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: color band denotes cathode
Mounting position: any

DO - 201AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	Symbol	1N5407GL	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	800	V
Maximum RMS Voltage	V _{rms}	560	V
Maximum DC blocking Voltage	V _{dc}	800	V
Maximum Average Forward Rectified Current 3/8" lead length at T _L =60°C	I _{f(av)}	3.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	140	A
Maximum Instantaneous Forward Voltage at rated forward current	V _f	0.92	V
Maximum DC Reverse Current at rated DC blocking voltage	I _r	5.0 250.0	μA
Typical Junction Capacitance (Note 1)	C _j	50	pF
Typical Thermal Resistance (Note 2)	R _{th(ja)}	20	°C/W
Storage and Operating Junction Temperature	T _{stg} , T _j	-55 to +175	°C

Note:

1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient at 0.375" lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES 1N5407GL

FIG.1 - FORWARD CURRENT DERATING CURVE

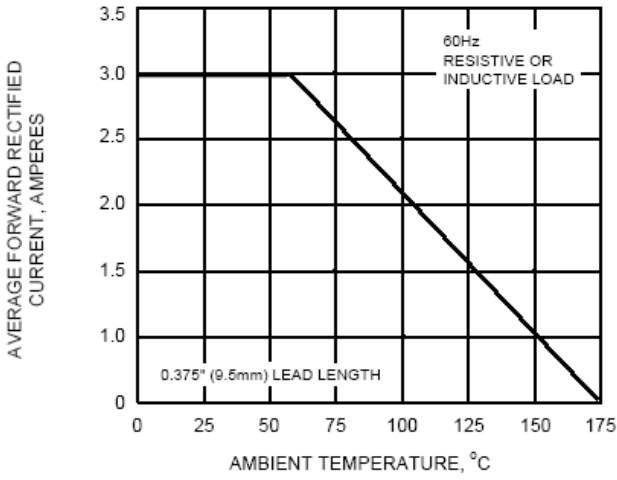


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

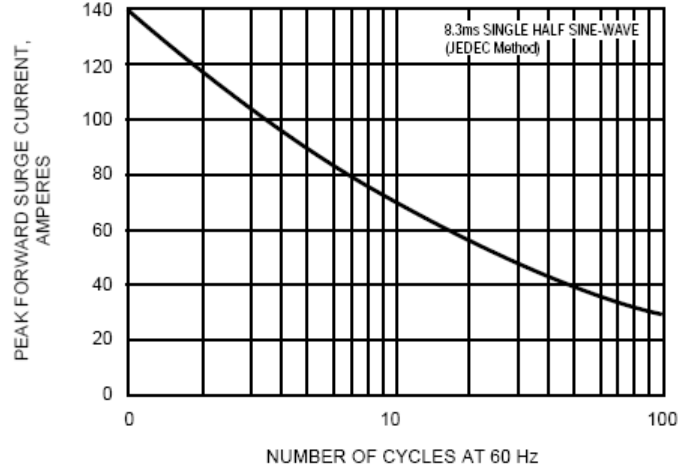


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

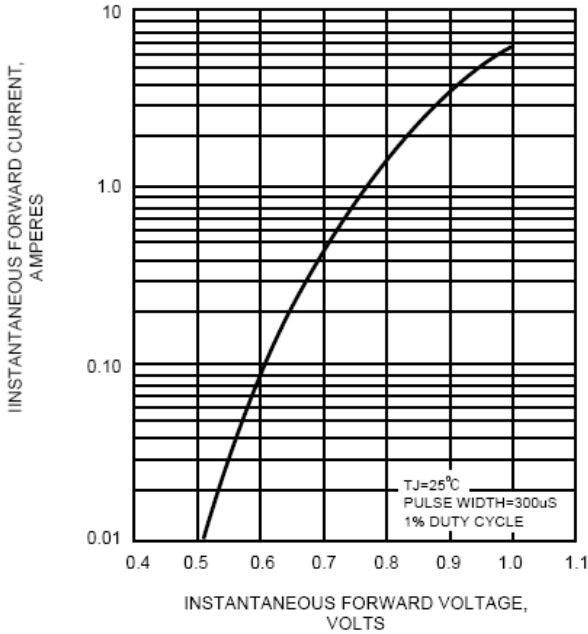


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

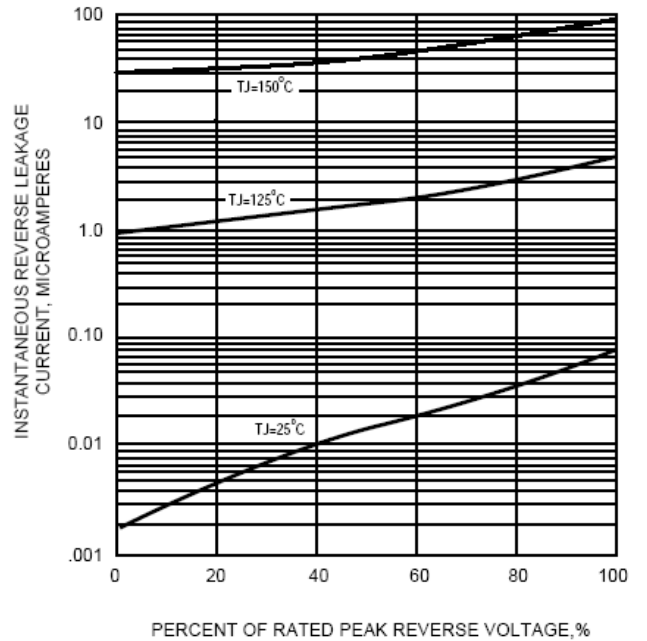


FIG.5 - TYPICAL JUNCTION CAPACITANCE

