1N5406G-E THRU 1N5407G-E

GLASS PASSIVATED JUNCTION RECTIFIER

VOLTAGE: 600V to 800V **CURRENT: 3.0A**

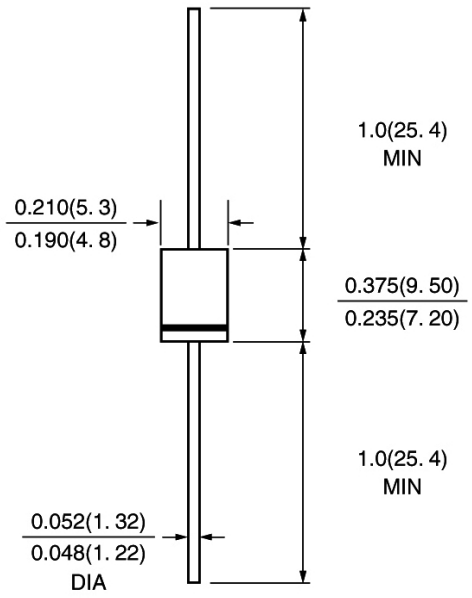
FEATURE

Molded case feature for auto insertion
High current capability
Low leakage current
High surge capability
High temperature soldering guaranteed
250°C /10sec/0.375" lead length at 5 lbs tension
Glass Passivated chip
Halogen Free

MECHANICAL DATA

Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
Case: Molded with UL-94 Class V-0 recognized Halogen Free 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, for capacitive load, derate current by 20%)

	SYMBOL	1N5406G-E	1N5407G-E	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	600	800	V
Maximum RMS Voltage	Vrms	420	560	V
Maximum DC blocking Voltage	Vdc	600	800	V
Maximum Average Forward Rectified Current 3/8" lead length at T_L =105°C	If(av)	3.0		A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	180		A
Maximum Instantaneous Forward Voltage at rated forward current	Vf	1.1		V
Maximum full load reverse current full cycle at T_L =75°C	Ir(av)	30.0		μA
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir	5.0 100.0		μA
Typical Junction Capacitance (Note 1)	Cj	40		pF
Operating Temperature (Note 2)	Rth(ja)	30		°C/W
Storage and Operating Junction Temperature	Tstg, Tj	-55 to +150		°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 1N5406G-E THRU 1N5407G-E

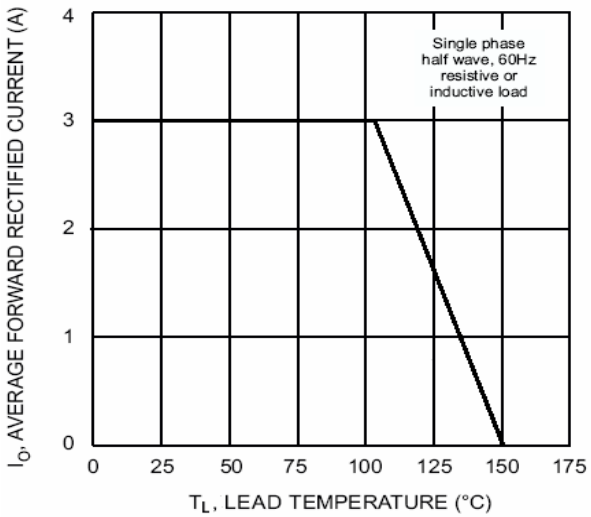


Fig. 1 Forward Current Derating Curve

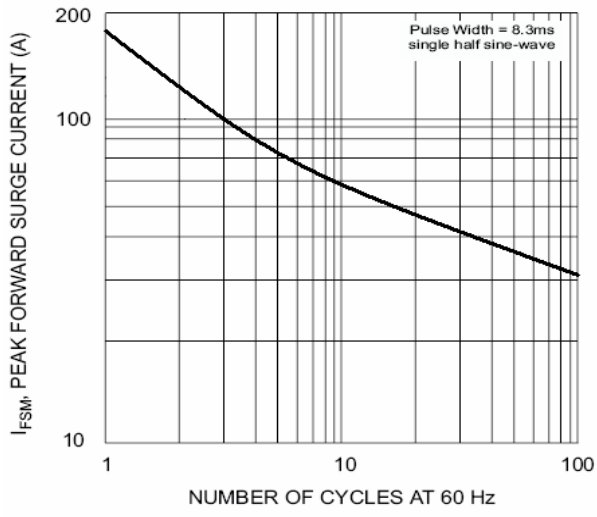


Fig. 2 Peak Forward Surge Current

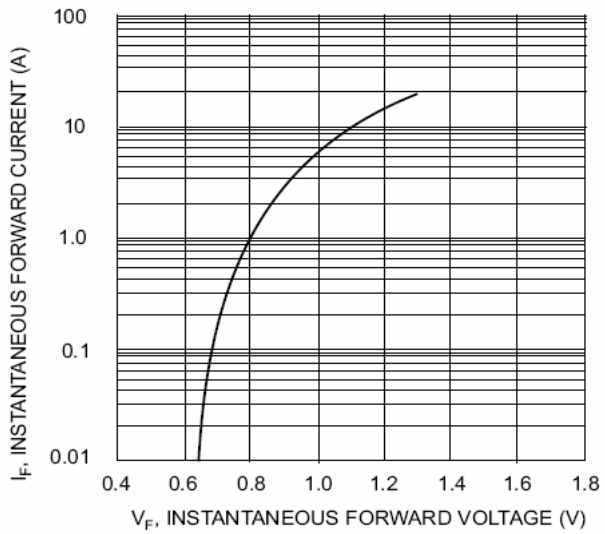


Fig. 3 Typical Forward Characteristics

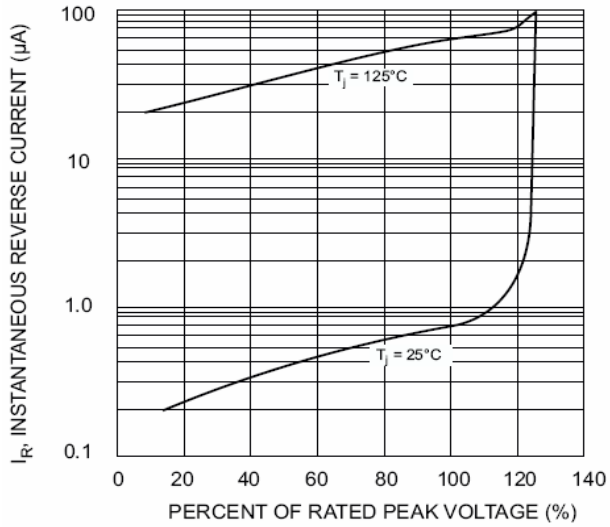


Fig. 4 Typical Reverse Characteristics

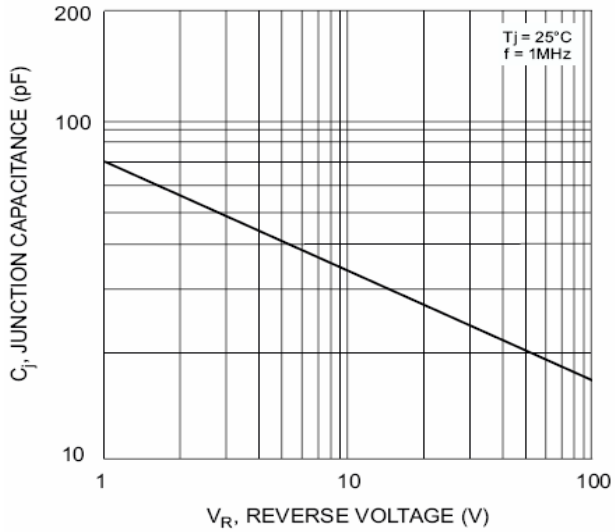


Fig. 5 Typical Junction Capacitance