1N5400G THRU 1N5408G

GLASS PASSIVATED JUNCTION RECTIFIER

VOLTAGE: 50V to 1000V **CURRENT: 3.0A**

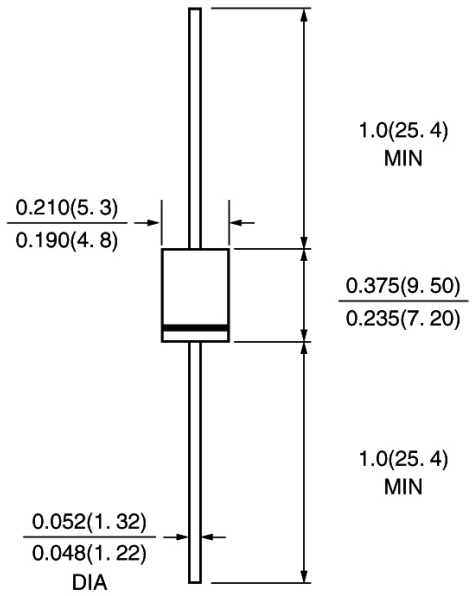
FEATURE

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

MECHANICAL DATA

Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
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, for capacitive load, derate current by 20%)

	Symbol	1N5400G	1N5401G	1N5402G	1N5403G	1N5404G	1N5405G	1N5406G	1N5407G	1N5408G	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	210	280	350	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	300	400	500	600	800	1000	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 =100°C	Ir	5.0 300.0									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 1N5400G THRU 1N5408G

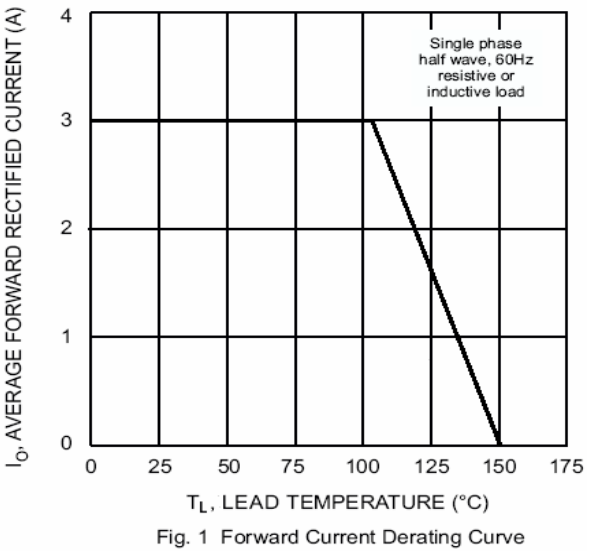


Fig. 1 Forward Current Derating Curve

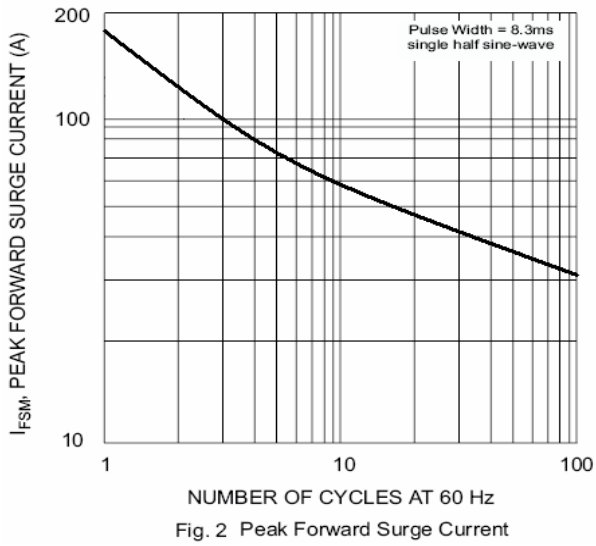


Fig. 2 Peak Forward Surge Current

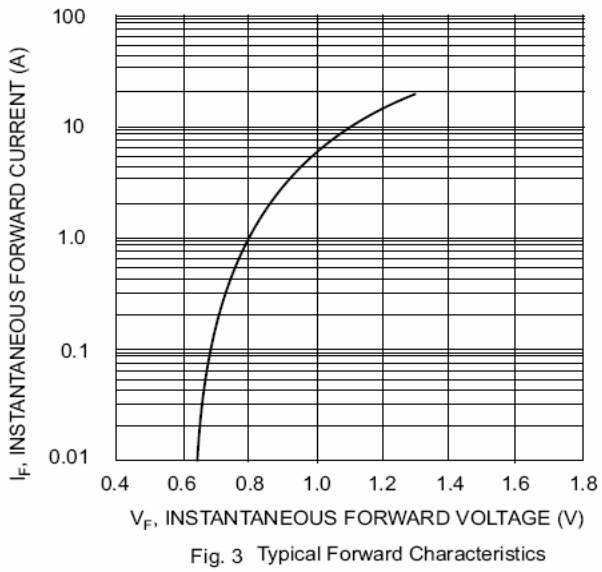


Fig. 3 Typical Forward Characteristics

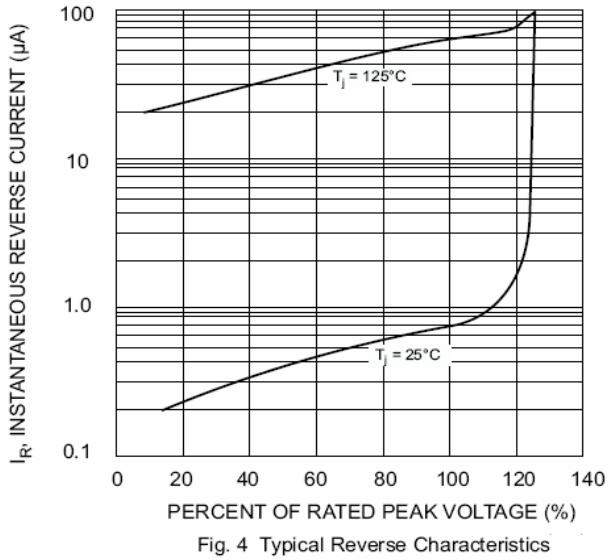


Fig. 4 Typical Reverse Characteristics

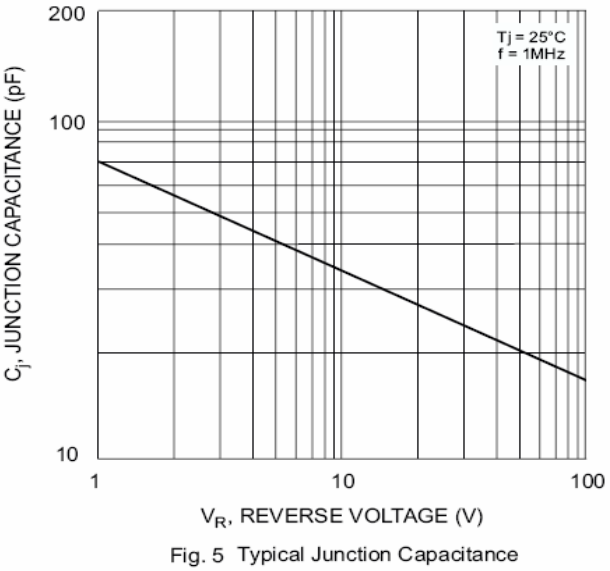


Fig. 5 Typical Junction Capacitance