

1N5400G-E THRU 1N5408G-E

GLASS PASSIVATED JUNCTION RECTIFIER

VOLTAGE: 50V to 1000V

CURRENT: 3.0A



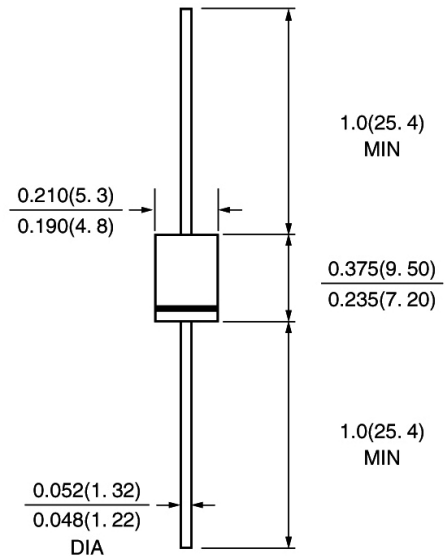
FEATURE

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
Halogen Free

MECHANICAL DATA

Terminal: Plated axial leads solderable per
MIL-STD 202E, method 208C
Case: Molded with UL-94 Class V-0 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	1N 540 0G- E	1N 540 1G- E	1N 540 2G- E	1N 540 3G- E	1N 540 4G- E	1N 540 5G- E	1N 540 6G- E	1N 540 7G- E	1N 540 G- E	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V _{rms}	35	70	140	210	280	350	420	560	700	V
Maximum DC blocking Voltage	V _{dc}	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current 3/8" lead length at T _L =105°C	I _{f(av)}	3.0									A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	180									A
Maximum Instantaneous Forward Voltage at rated forward current	V _f	1.1									V
Maximum full load reverse current full cycle at T _L =75°C	I _{r(av)}	30.0									μA
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I _r	5.0 100.0									μA
Typical Junction Capacitance (Note 1)	C _j	40									pF
Operating Temperature (Note 2)	R _{th(ja)}	30									°C/W
Storage and Operating Junction Temperature	T _{stg} , T _j	-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

Rev.A2

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RATINGS AND CHARACTERISTIC CURVES 1N5400G-E THRU 1N5408G-E

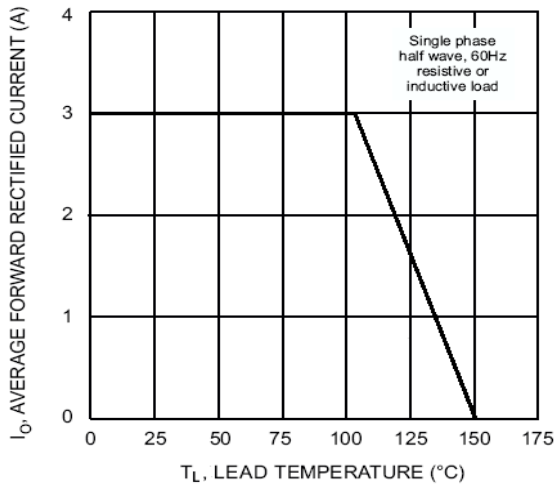


Fig. 1 Forward Current Derating Curve

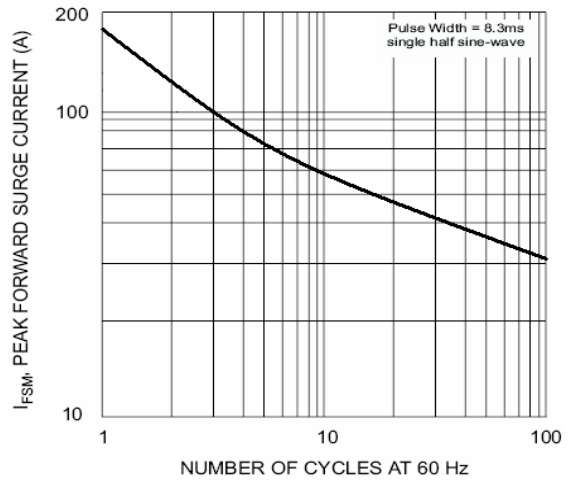


Fig. 2 Peak Forward Surge Current

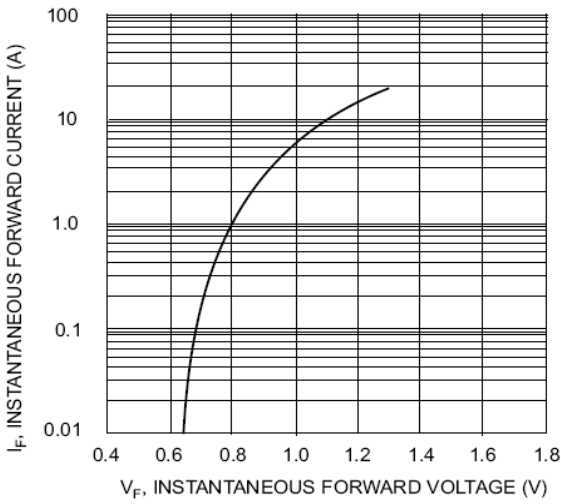


Fig. 3 Typical Forward Characteristics

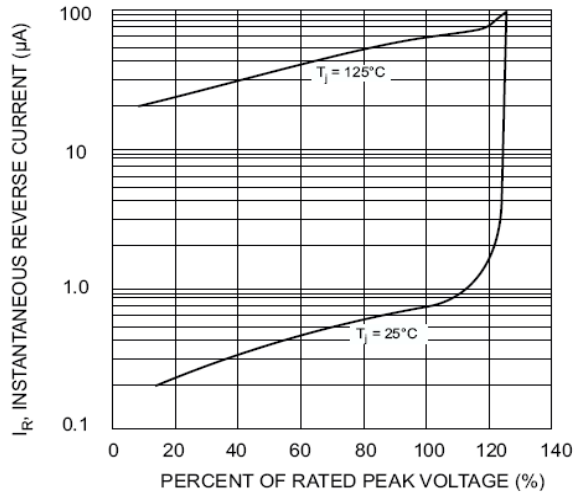


Fig. 4 Typical Reverse Characteristics

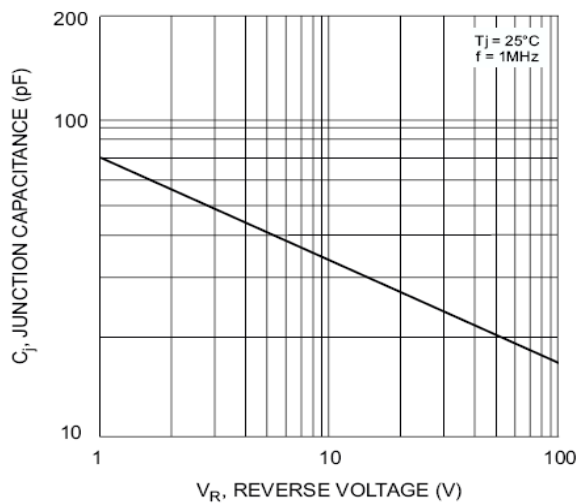


Fig. 5 Typical Junction Capacitance