

# 1N5400G THRU 1N5408G

## GLASS PASSIVATED JUNCTION RECTIFIER

VOLTAGE: 50V to 1000V

CURRENT: 3.0A



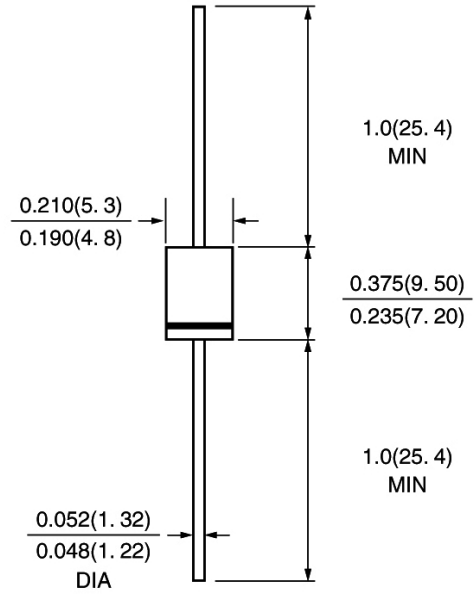
### FEATURE

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	V <sub>rrm</sub>	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	210	280	350	420	560	700	V
Maximum DC blocking Voltage	V <sub>dc</sub>	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current 3/8" lead length at T <sub>L</sub> =105°C	I <sub>f(av)</sub>	3.0									A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	180									A
Maximum Instantaneous Forward Voltage at rated forward current	V <sub>f</sub>	1.1									V
Maximum full load reverse current full cycle at T <sub>L</sub> =75°C	I <sub>r(av)</sub>	30.0									μA
Maximum DC Reverse Current at rated DC blocking voltage	I <sub>r</sub>	5.0 300.0									μA
Typical Junction Capacitance (Note 1)	C <sub>j</sub>	40									pF
Typical Thermal Resistance (Note 2)	R <sub>th(ja)</sub>	30									°C/W
Storage and Operating Junction Temperature	T <sub>stg</sub> , T <sub>j</sub>	-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

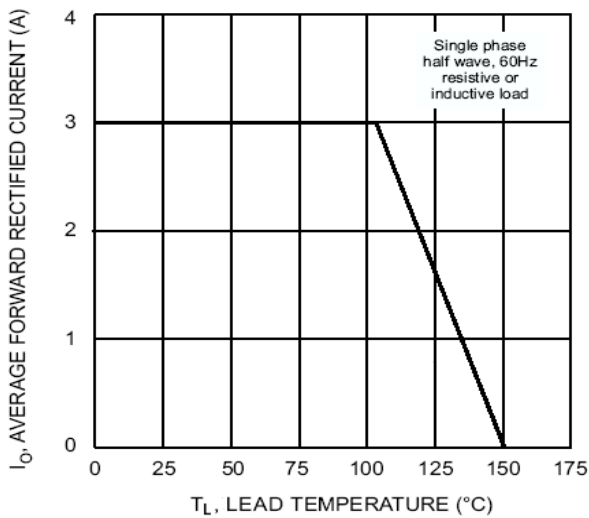


Fig. 1 Forward Current Derating Curve

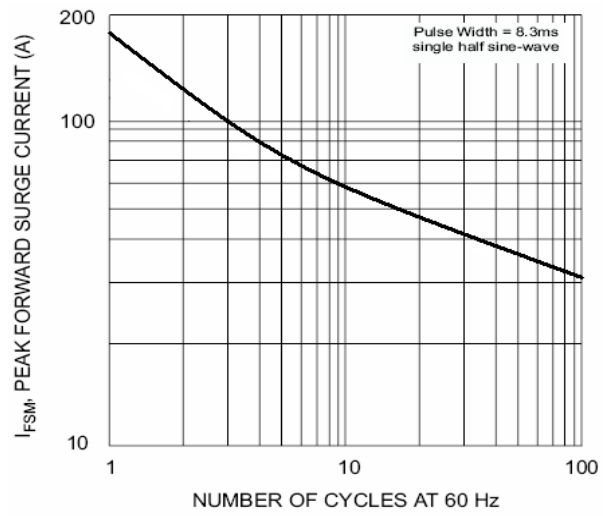


Fig. 2 Peak Forward Surge Current

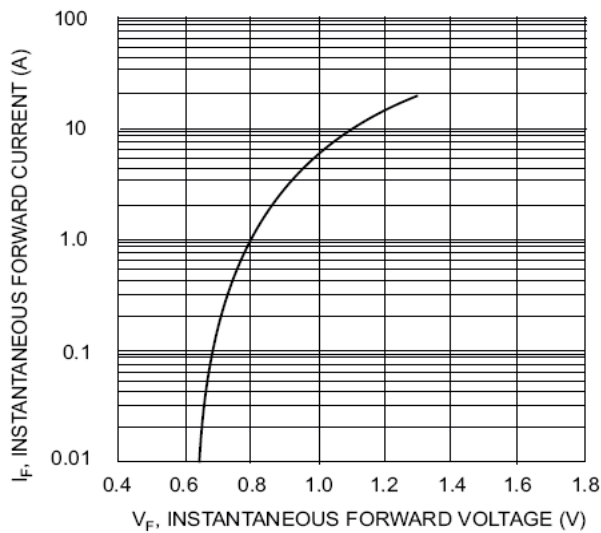


Fig. 3 Typical Forward Characteristics

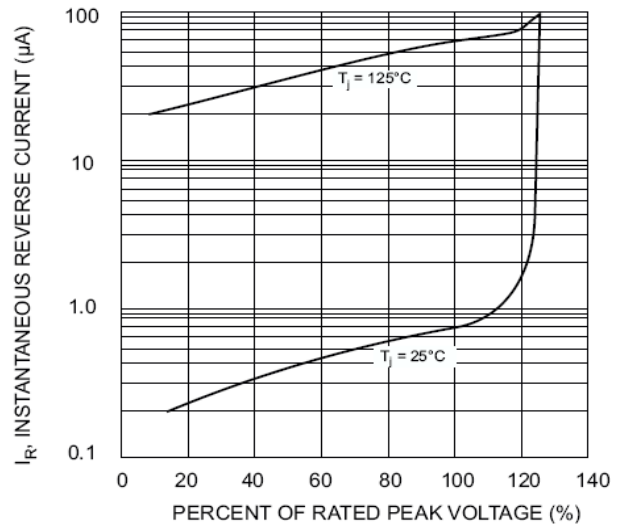


Fig. 4 Typical Reverse Characteristics

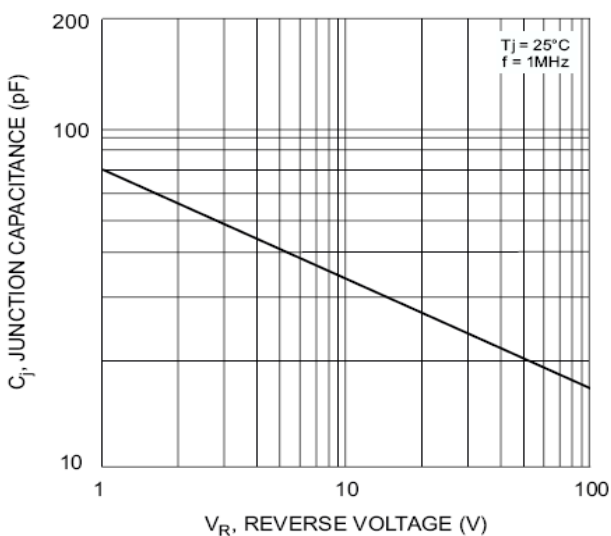


Fig. 5 Typical Junction Capacitance