

# 1N5400GM THRU 1N5408GM

## GLASS PASSIVATED JUNCTION RECTIFIER

VOLTAGE: 50V to 1000V

CURRENT: 3.0A



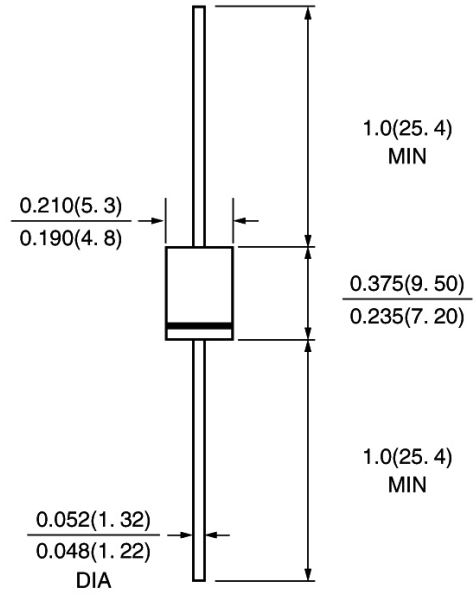
### FEATURE

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	1N5 400 GM	1N5 401 GM	1N5 402 GM	1N5 403 GM	1N5 404 GM	1N5 405 GM	1N5 406 GM	1N5 407 GM	1N5 408 GM	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>	125									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
Operating Temperature (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 1N5400GM THRU 1N5408GM

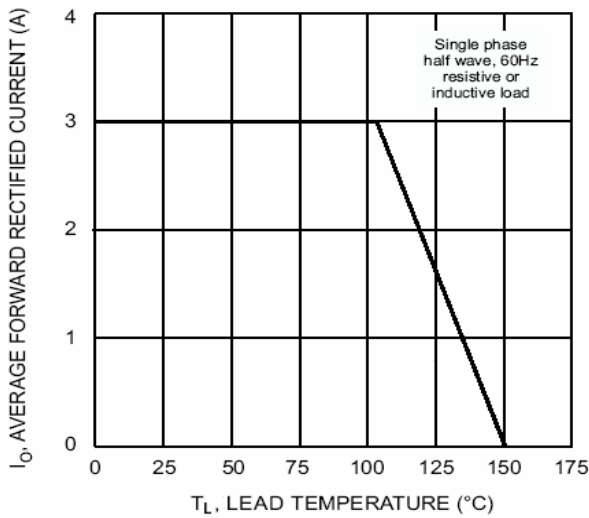


Fig. 1 Forward Current Derating Curve

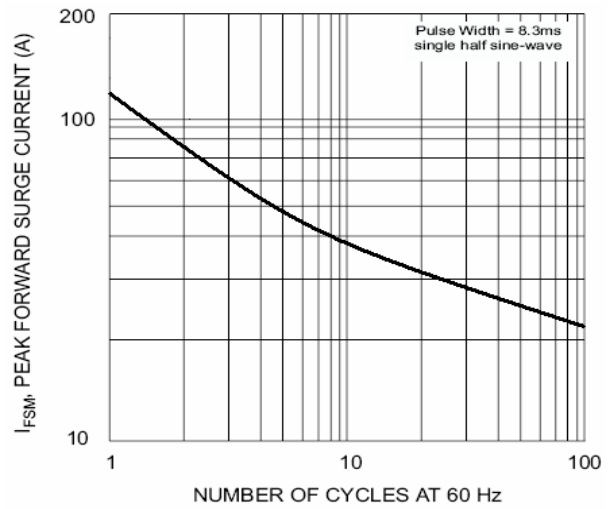


Fig. 2 Peak Forward Surge Current

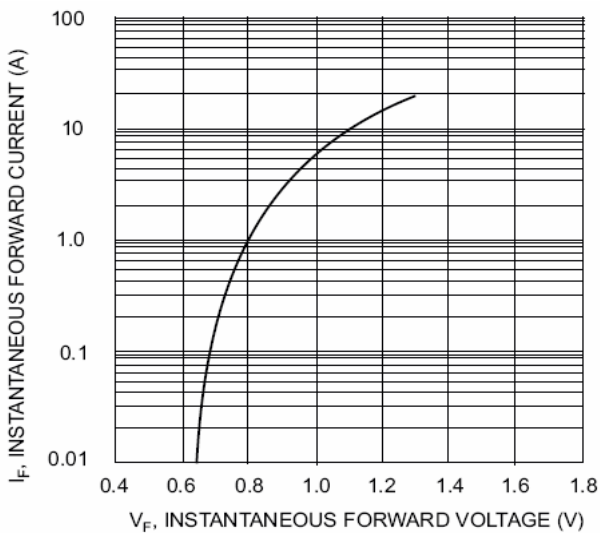


Fig. 3 Typical Forward Characteristics

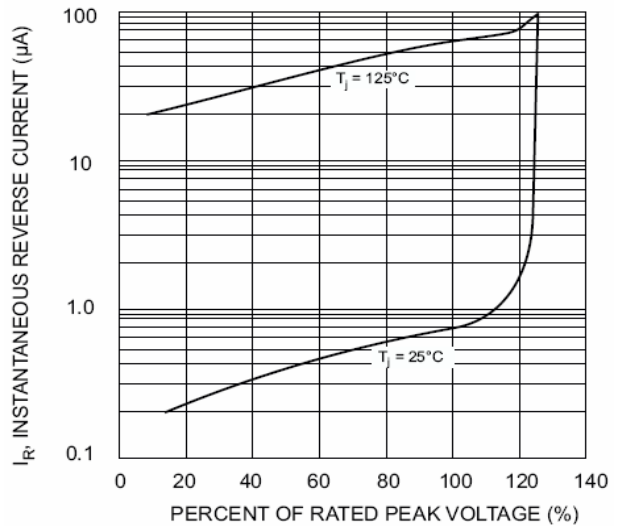


Fig. 4 Typical Reverse Characteristics

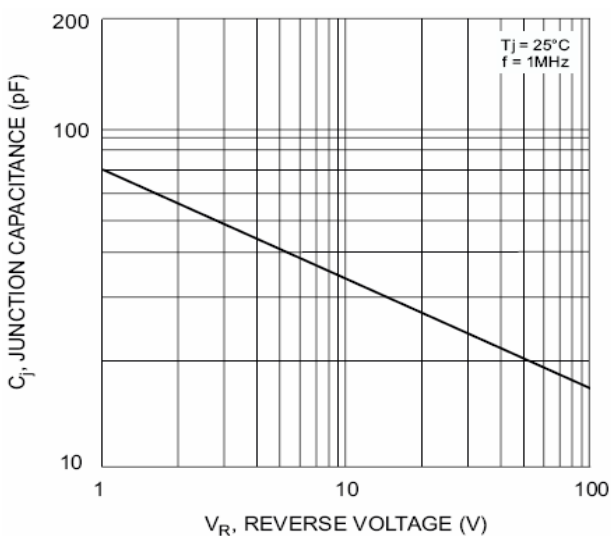


Fig. 5 Typical Junction Capacitance