

# 1N5407GH THRU 1N5408GH

## GLASS PASSIVATED JUNCTION RECTIFIER

VOLTAGE: 800V to 1000V

CURRENT: 3.0A



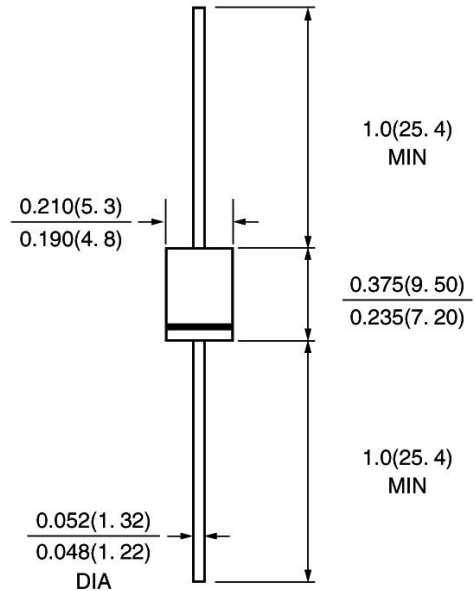
### FEATURE

Molded case feature for auto insertion  
 High current capability  
 Low leakage current  
 High surge capability  
 High temperature soldering guaranteed  
 260°C /10sec/0.375" lead length  
 Glass Passivated chip

### MECHANICAL DATA

Terminal: Plated axial leads solderable per J-STD-002  
 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)

	Symbol	1N5407GH	1N5408GH	units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	800	1000	V
Maximum RMS Voltage	V <sub>rms</sub>	560	700	V
Maximum DC blocking Voltage	V <sub>dc</sub>	800	1000	V
Maximum Average Forward Rectified Current 3/8" lead length at T <sub>L</sub> =80°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>	160		A
Maximum Instantaneous Forward Voltage at rated forward current	V <sub>f</sub>	1.0		V
Maximum DC Reverse Current at rated DC blocking voltage	I <sub>r</sub>	T <sub>a</sub> =25°C	5.0	μA
		T <sub>a</sub> =150°C	150.0	
Typical Junction Capacitance (Note 1)	C <sub>j</sub>	40		pF
Typical Thermal Resistance (Note 2)	R <sub>th(ja)</sub>	20		°C/W
	R <sub>th(jl)</sub>	12		
Storage and Operating Junction Temperature	T <sub>stg</sub> , T <sub>j</sub>	-55 to +175		°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 1N5407GH THRU 1N5408GH

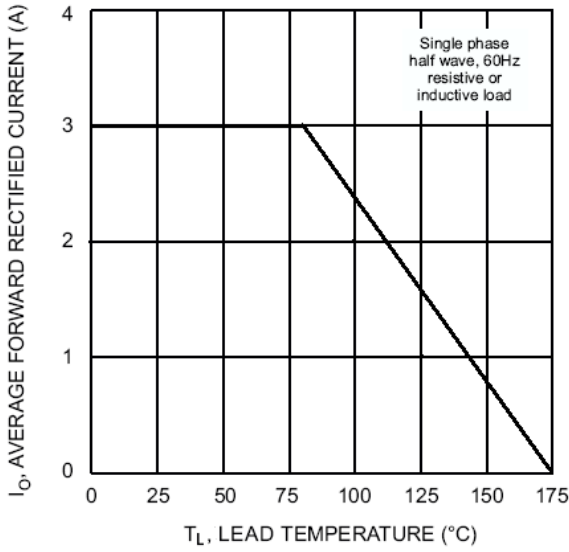


Fig. 1 Forward Current Derating Curve

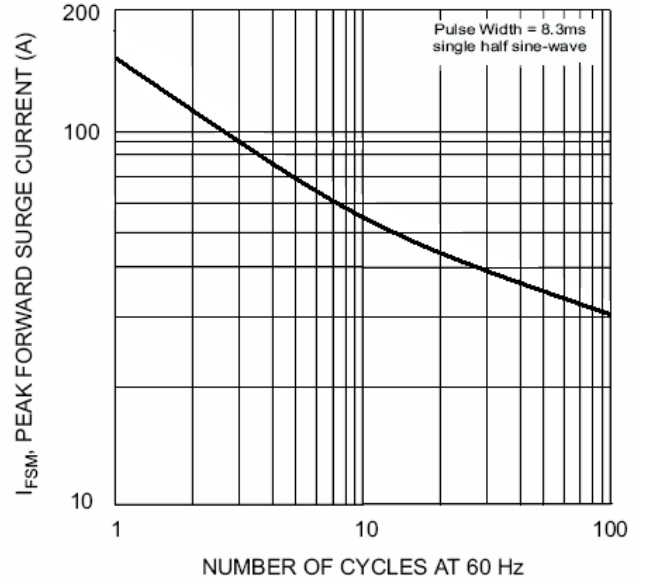


Fig. 2 Peak Forward Surge Current

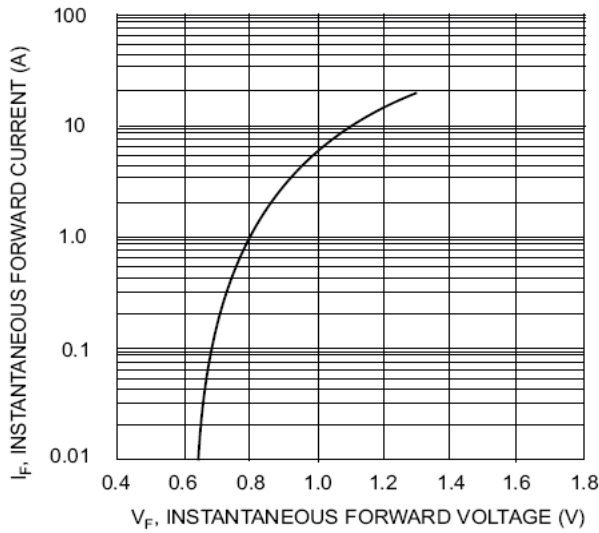


Fig. 3 Typical Forward Characteristics

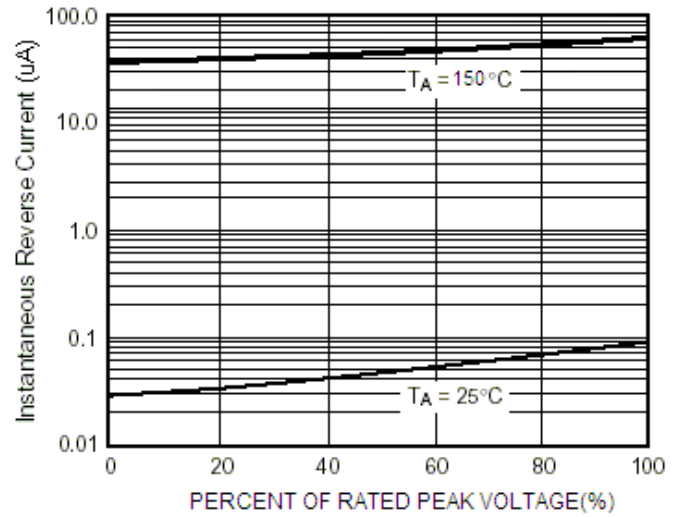


Fig. 4 Typical Reverse Characteristics

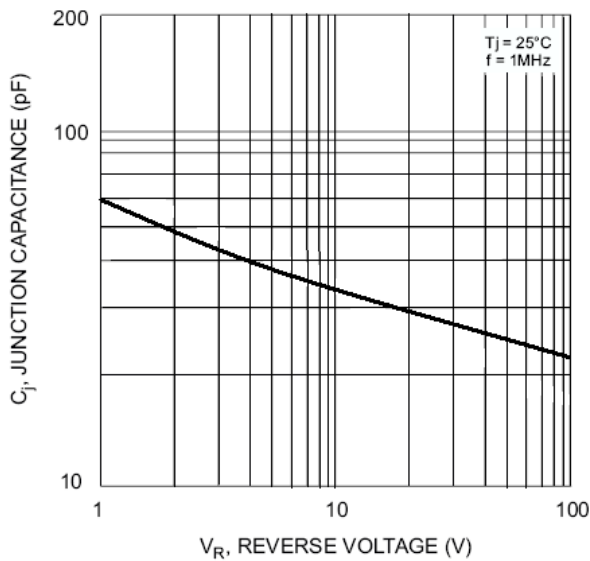


Fig. 5 Typical Junction Capacitance