

# 1N5400G                      THRU                      1N5408G

## GLASS PASSIVATED RECTIFIERS

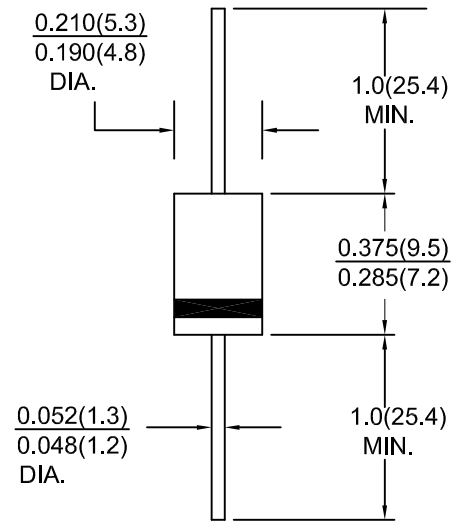
### FEATURES:

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Glass passivated junction

### MECHANICAL DATA

Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy  
 Terminals : Axial leads, solderable per MIL-STD-202, Method 208 guaranteed  
 Polarity : Color band on body denotes cathode end  
 Mounting Position : Any  
 Weight : 1.1 grams,

DO-201AD



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.  
 Single phase, half sine wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20 %.

Characteristic	Symbol	1N 5400G	1N 5401G	1N 5402G	1N 5404G	1N 5406G	1N 5407G	1N 5408G	Units
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current .375" lead length at Ta=75° C	I <sub>(AV)</sub>	3.0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I <sub>FSM</sub>	200							Amps
Maximum instantaneous forward voltage drop at 3.0 A	V <sub>F</sub>	1.1		1.0				Volts	
Maximum DC reverse current Ta=25° C at rated DC blocking voltage Ta=150° C	I <sub>R</sub>					5.0 100.0		μ A	
Typical thermal resistance (Note 2)	R <sub>th-JA</sub>					30		° C/W	
Typical junction capacitance (Note 1)	C <sub>j</sub>					40		pF	
Operating junction and storage temperature range	T <sub>j</sub> , T <sub>stg</sub>	-65 to +150							° C

NOTES:1. Measured at 1MHz and Applied reverse voltage of 4.0V<sub>DC</sub>  
 2. Thermal Resistance from junction to ambient .375"(9.5mm) lead length.

# RATINGS AND CHARACTERISTIC CURVES 1N5400G THRU 1N5408G

FIG.1-TYPICAL FORWARD CHARACTERISTICS

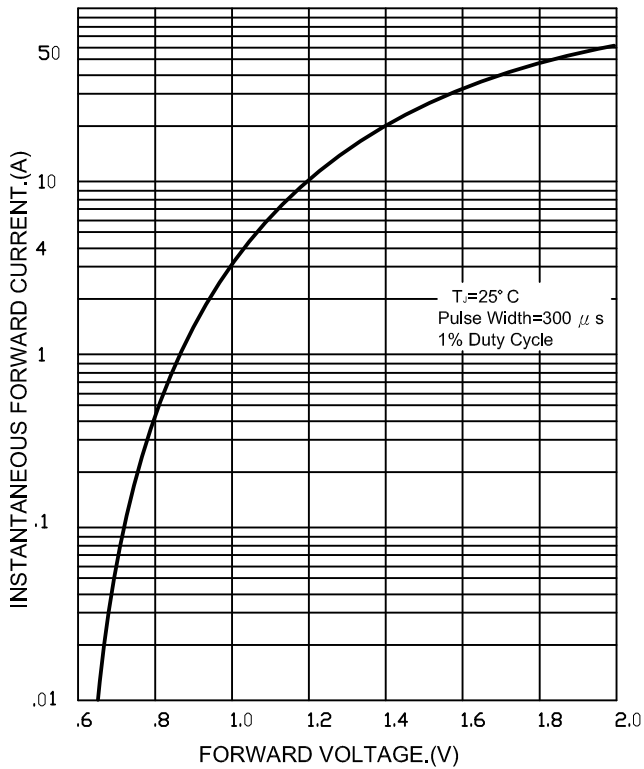


FIG.2 - TYPICAL FORWARD CURRENT DERATING CURVE

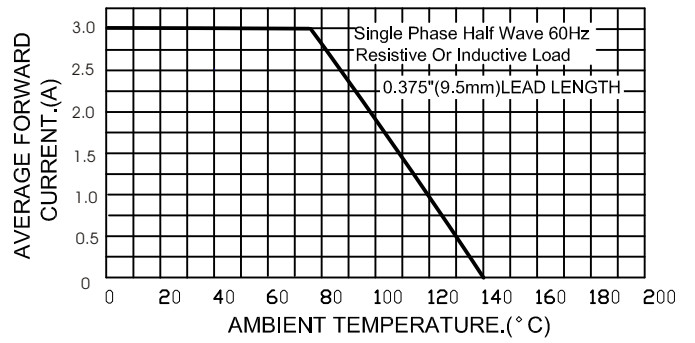


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

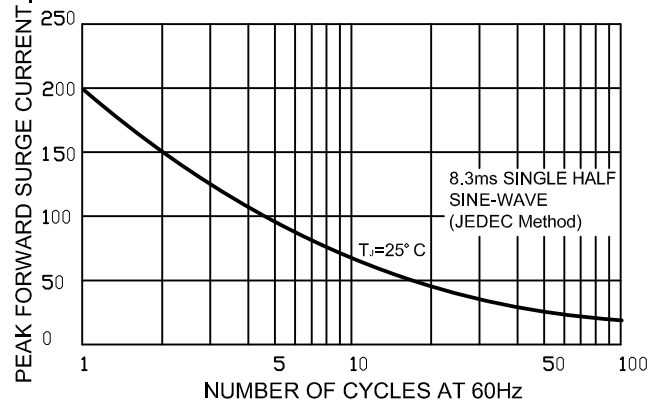


FIG.3-TYPICAL REVERSE CHARACTERISTICS

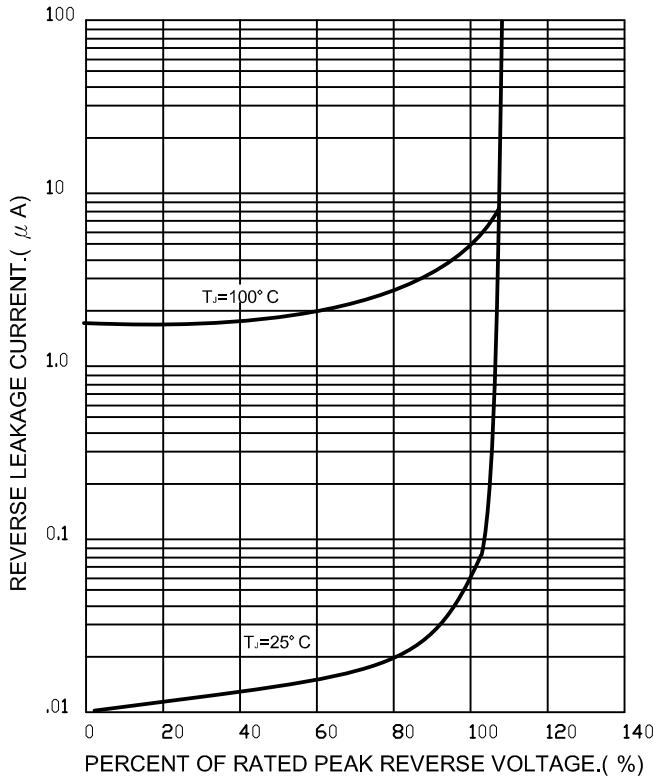


FIG.5-TYPICAL JUNCTION CAPACITANCE

