

# 1N5400G THRU 1N5408G

## TECHNICAL SPECIFICATIONS OF SILICON RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 3.0A

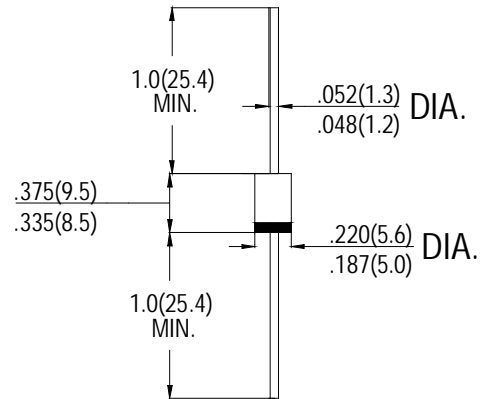
### FEATURES

- High reliability
- Low leakage
- Low forward voltage drop
- High current capability

### MECHANICAL DATA

- **Case:** Molded plastic
- **Epoxy:** UL94V-0 rate flame retardant
- **Lead:** MIL-STD- 202E, Method 208 guaranteed
- **Polarity:** Color band denotes cathode end
- **Mounting position:** Any
- **Weight:** 1.18 grams

### DO-27



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	1N5400 G	1N5401 G	1N540 2G	1N5404 G	1N5406 G	1N540 7G	1N5408 G	units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	v
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward rectified Current .375"(9.5mm) lead length at $T_L=75^\circ\text{C}$	$I_o$	3.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	150							A
Maximum Instantaneous forward Voltage at 3.0A DC	$V_F$	1.1							v
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$	$I_R$	5.0							$\mu\text{A}$
		500							
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at $T_L=75^\circ\text{C}$		30							
Typical Junction Capacitance (Note)	$C_J$	40							pF
Typical Thermal Resistance	$R_{\theta JA}$	30							$^\circ\text{C/W}$

Notes: Measured at 1MHz and applied reverse voltage of 4.0 volts