

# 1N4001G THRU 1N4007G

## TECHNICAL SPECIFICATIONS OF SILICON RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 1.0A

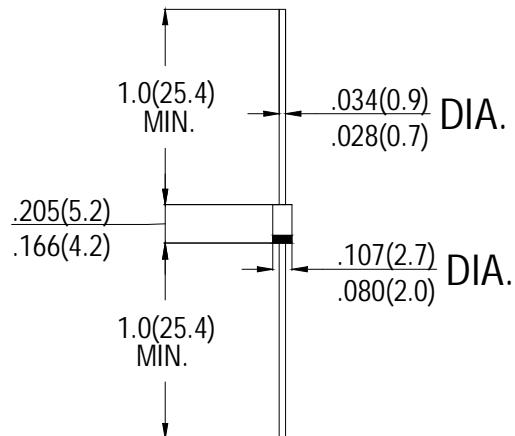
### FEATURES

- 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:** 0.33 grams

### DO-41



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRONICAL 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	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	UNITS
Maximum Recurrent Peak Reverse Voltage	<b>V<sub>RRM</sub></b>	50	100	200	400	600	800	1000	<b>V</b>
Maximum RMS Voltage	<b>V<sub>RMS</sub></b>	35	70	140	280	420	560	700	<b>V</b>
Maximum DC Blocking Voltage	<b>V<sub>DC</sub></b>	50	100	200	400	600	800	1000	<b>V</b>
Maximum Average Forward rectified Current at T <sub>A</sub> =75°C	<b>I<sub>o</sub></b>						1.0		<b>A</b>
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	<b>I<sub>FSM</sub></b>						30		<b>A</b>
Maximum Instantaneous forward Voltage at 1.0A DC	<b>V<sub>F</sub></b>				1.1				<b>V</b>
Maximum DC Reverse Current @ T <sub>A</sub> =25°C at Rated DC Blocking Voltage	<b>I<sub>R</sub></b>				5.0				<b>μA</b>
					500				
Maximum Full Load Reverse Current Average Full Cycle .375"(9.5mm) lead length at T <sub>L</sub> =75°C					30				
Typical Junction Capacitance (Note)	<b>C<sub>J</sub></b>				15				<b>pF</b>
Typical Thermal Resistance	<b>R<sub>θJA</sub></b>				50				°C/W

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