

## DC COMPONENTS CO., LTD.

#### RECTIFIER SPECIALISTS

1N5400G THRU 1N5408G

# TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 3.0 Amperes

#### **FEATURES**

- \* Low cost
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability
- \* Glass passivated junction

#### **MECHANICAL DATA**

\* Case: Molded plastic

\* Epoxy: UL 94V-0 rated flame retardant

\* Lead: MIL-STD-202E, Method 208 guaranteed

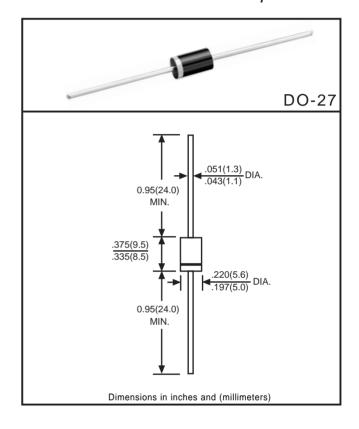
\* Polarity: Color band denotes cathode end

\* Mounting position: Any

\* Weight: 1.18 gram approx.

#### 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%.



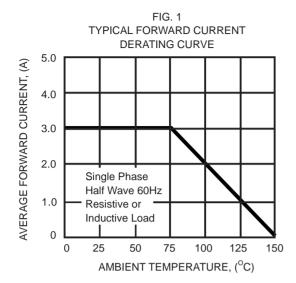
	SYMBOL	1N5400G	1N5401G	1N5402G	1N5404G	1N5406G	1N5407G	1N5408G	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 375"(9.5mm) lead length at T <sub>A</sub> = 75°C	lo				3.0				Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	İfsm	150							Amps
Maximum Instantaneous Forward Voltage at 3.0A DC	VF	1.1							Volts
Maximum DC Reverse Current at Rated @ TA=25°C DC Blocking Voltage @ TA=100°C		5.0							μAmps
	l <sub>R</sub>	500							
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T∟ = 55°C		30							
Typical Junction Capacitance (Note 1)	Cı	40							pF
Typical Thermal Resistance (Note 2)	<b>R</b> өJ A	30					°C/W		
Operating and Storage Temperature Range	Т <sub>Ј</sub> ,Тѕтс	-55 to +150						°C	

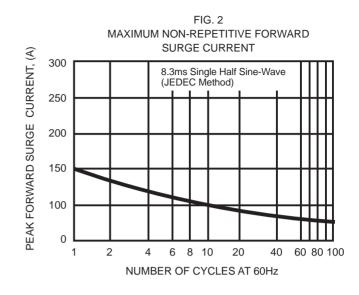
Note 1: Measured at 1 MHz and applied reverse voltage of 4.0 volts.

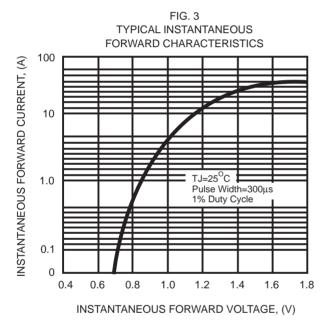
Note 2: Typical thermal resistance from junction to ambient.

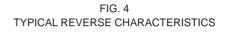
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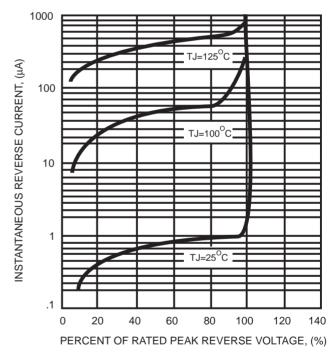
### **RATING AND CHARACTERISTIC CURVES (1N5400G THRU 1N5408G)**

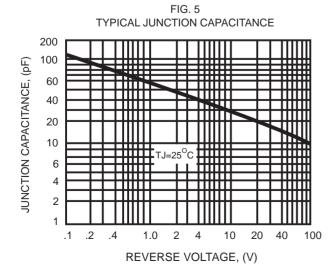












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