



#### FEATURES :

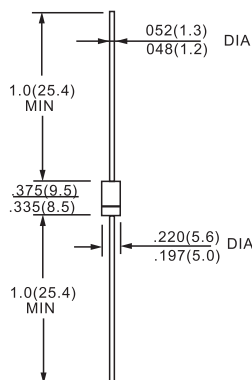
- \* Glass passivated chip
- \* High current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop

#### MECHANICAL DATA :

- \* Case : DO-201AD Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 1.16 grams

## GLASS PASSIVATED JUNCTION SILICON RECTIFIERS

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%

		SYMBOLS	IN 5400G	IN 5401G	IN 5402G	IN 5404G	IN 5406G	IN 5407G	IN 5408G	UNIT
Maximum Repetitive 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 0.375 (9.5mm) lead length at T <sub>A</sub> =75		I <sub>(AV)</sub>	3.0							Amp
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I <sub>FSM</sub>	125							Amps
Maximum Instantaneous Forward Voltage at 3.0A		V <sub>F</sub>	1.1							Volts
Maximum DC Reverse Current at rated DC blocking Voltage at	T <sub>A</sub> = 25	I <sub>R</sub>	5.0							μA
	T <sub>A</sub> = 125		50							
Maximum Full Load Reverse Current, full cycle Average 0.375(9.5mm) lead length at T <sub>L</sub> =75		I <sub>R(AV)</sub>	30							μA
Typical Junction Capacitance (NOTE 1)		C <sub>J</sub>	40							pF
Typical Thermal Resistance (NOTE 2)		R <sub>θJA</sub>	30							/W
Operating Temperature Range		T <sub>J</sub>	(-55 to +150)							
Storage Temperature Range		T <sub>STG</sub>	(-55 to +150)							

#### Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
2. Thermal Resistance from Junction to Ambient at 0.375 (9.5mm) lead length, P.C. board mounted.



## RATING AND CHARACTERISTIC CURVES 1N5400 THRU 1N54008

