

SHANGHAI SUNRISE ELECTRONICS CO., LTD.

1N5400G THRU 1N5408G

GLASS PASSIVATED JUNCTION RECTIFIER

TECHNICAL SPECIFICATION

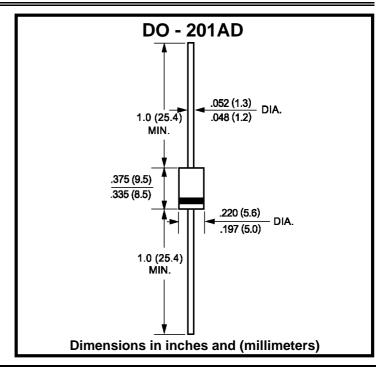
VOLTAGE: 50 TO 1000V CURRENT: 3.0A

FEATURES

- Molded case feature for auto insertion
- Glass passivated chip
- High current capability
- Low leakage current
- High surge capability
- High temperature soldering guaranteed: 250°C/10sec/0.375"(9.5mm) lead length at 5 lbs tension

MECHANICAL DATA

- Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-O recognized flame retardant epoxy
- Polarity: Color band denotes cathode
- Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	1N54 00G	1N54 01G	1N54 02G	1N54 04G	1N54 06G	1N54 07G	1N54 08G	UNITS
Maximum Repetitive 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	l=	3.0							А
(9.5mm lead length, at T _L =105°C)	I _{F(AV)}								
Peak Forward Surge Current (8.3ms single	l-ou	200							Α
half sine-wave superimposed on rated load)	I _{FSM}								
Maximum Instantaneous Forward Voltage	V-	V _F 1.0							V
(at rated forward current)	٧F								٧
Maximum DC Reverse Current T _a =25°C	_	5.0							μΑ
(at rated DC blocking voltage) T _a =100°C	I _R	300							μΑ
Typical Junction Capacitance (Note 1)	C_J	40							pF
Typical Thermal Resistance (Note 2)	R _θ (ja)	30							°C/W
Storage and Operation Junction Temperature	T_{STG},T_{J}	-65 to +150						°C	
Note:									

Note:

- 1.Measured at 1.0 MHz and applied voltage of 4.0V_{dc}
- 2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C. board mounted