SHANGHAI SUNRISE ELECTRONICS CO., LTD.

1N5400G THRU 1N5408G
GLASS PASSIVATED
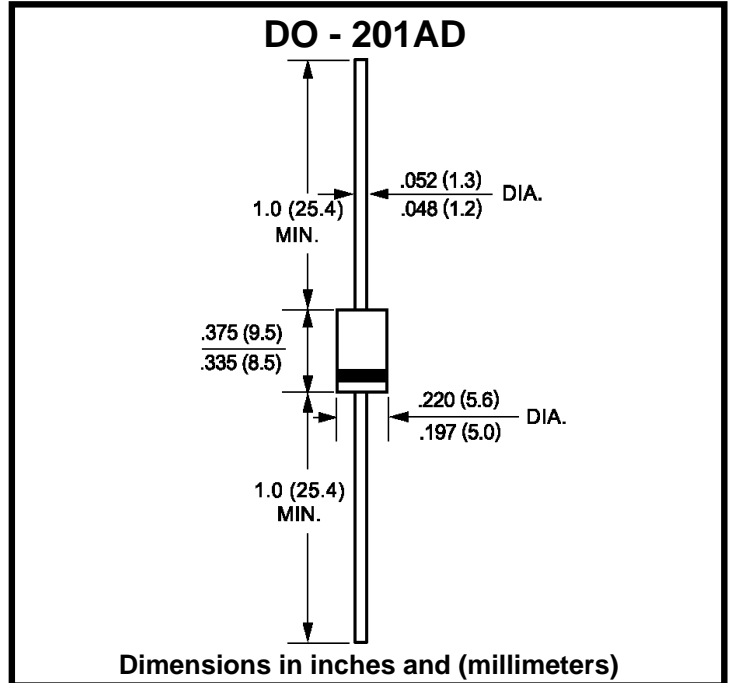### JUNCTION RECTIFIER

*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

DO - 201AD

.052 (1.3) DIA.
.048 (1.2)
1.0 (25.4) MIN.
.375 (9.5)
.335 (8.5)
.220 (5.6) DIA.
.197 (5.0)
1.0 (25.4) MIN.

Dimensions in inches and (millimeters)

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	1N5400G	1N5401G	1N5402G	1N5404G	1N5406G	1N5407G	1N5408G	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 (9.5mm lead length, at T_L=105°C)	$I_{F(AV)}$	3.0							A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I_{FSM}	200							A
Maximum Instantaneous Forward Voltage (at rated forward current)	V_F	1.0							V
Maximum DC Reverse Current T_a=25°C (at rated DC blocking voltage) T_a=100°C	I_R	5.0 / 300							µA
Typical Junction Capacitance (Note 1)	C_J	40							pF
Typical Thermal Resistance (Note 2)	R_θ(ja)	30							^{o}C/W
Storage and Operation Junction Temperature	T_{STG},T_J	-65 to +150							^{o}C

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