YEA SHIN TECHNOLOGY CO., LTD

1N5400G THRU 1N5408G

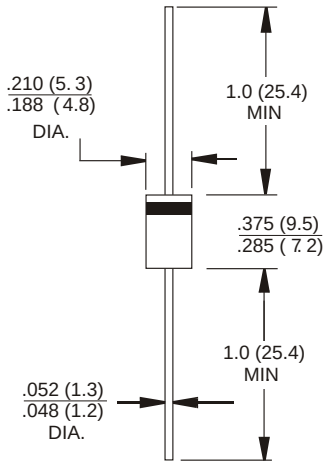
HIGH CURRENT PLASTIC SILICON RECTIFIER

VOLTAGE - 50 to 1000 Volts CURRENT - 3.0 Amperes

FEATURES

- High current capability
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame Retardant Epoxy Molding Compound
- Exceeds environmental standard of MIL-S-19500/228
- Low leakage
- High temperature soldering : 260°C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request

DO-201AD Unit:inch(mm)



MECHANICAL DATA

- Case: Molded plastic , DO-201AD
- Terminals: Plated axial leads, solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode
- Mounting Position : Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase , half wave, 60 Hz, resistive or inductive load .

For capacitive load, derate current by 20%.

PARAMETER	symbols	1N5400G	1N5401G	1N5402G	1N5403G	1N5404G	1N5405G	1N5406G	1N5407G	1N5408G	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at TA=55°C	I(AV)	3.0									A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150									A
Maximum Instataneous Forward Voltage at 3.0A DC	VF	1.1									V
Maximum Reverse Current TA =25 °C at Rated DC Blocking Voltage TA=125 °C	IR	5.0 100									uA
Maximum Full Load Reverse Current Full Cycle Average 5"(12.5mm)lead lengthat TL= 105 °C	IR	0.5									mA
Typical Junction capacitance (Note1)	CJ	30									pF
Typical Thermal Resistance (Note2)	RθJA	20.0									°C
Operating and Storage Temperature Range	TJ,TSTG	-55 TO +150									°C

NOTES:

1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
2. Thermal Resistance Junction to Ambient at 0.375"(9.5 mm) lead length, P.C.B. mounted with 0.8×0.8"(20×20mm) copper heatsinks.

DEVICE CHARACTERISTICS
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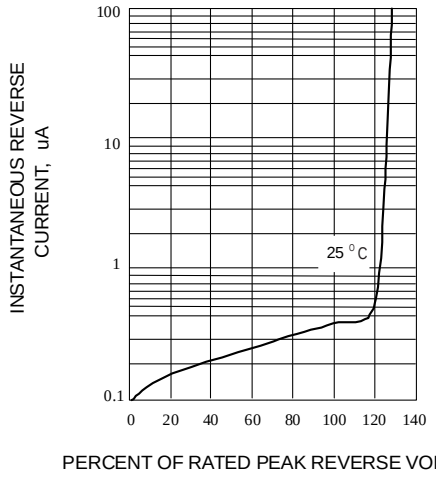

Fig. 1-TYPICAL REVERSE CHARACTERISTICS

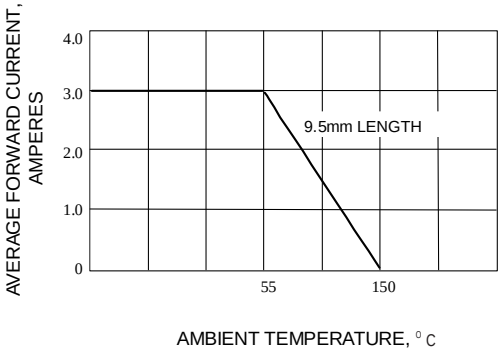

Fig. 2-FORWARD DERATING CURVE

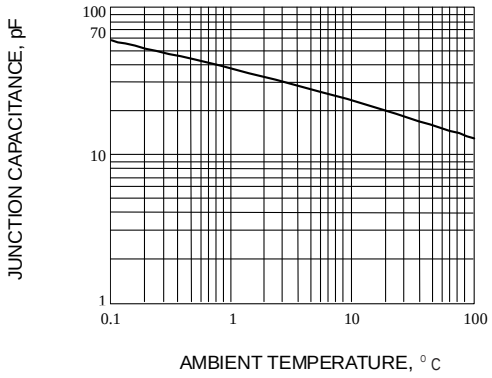

Fig. 3-FORWARD CURRENT DERATING CURVE

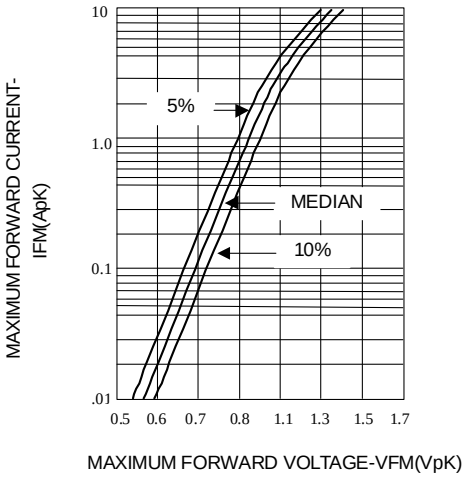

Fig. 4-TYPICAL JUNCTION CAPACITANCE

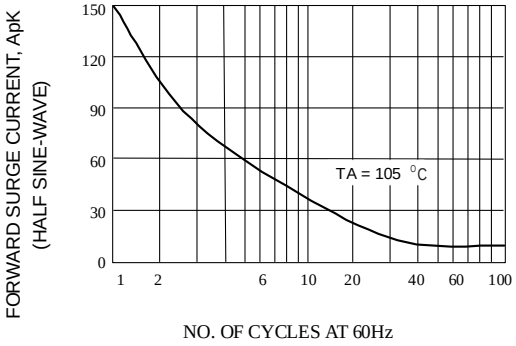

Fig. 5-MAXIMUM OVERLOAD SURGE CURRENT