1N5400 THRU 1N5408

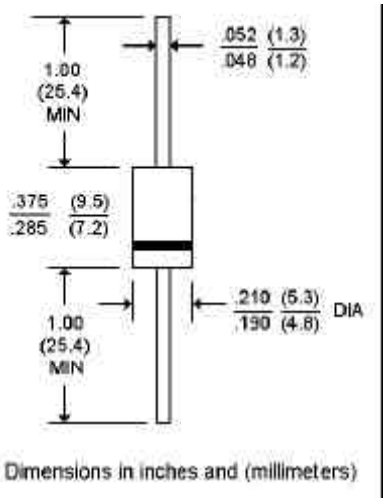
HIGH CURRENT PLASTIC SILICON RECTIFIER

VOLTAGE - 50 to 1000 Volts CURRENT - 3.0 Amperes

FEATURES

- High current capab ity
- Plastic package has Underwriters Laboratory Flammab ity Classification 94V-O ut izing
- Flame Retardant Epoxy Molding Compound
- Exceeds environmental standards of MIL-S-19500/228
- Low leakage

DO-201AD



Dimensions in inches and (millimeters)

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
Weight: 0.04 ounce, 1.1 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

	1N5400	1N5401	1N5402	1N5403	1N5404	1N5405	1N5406	1N5407	1N5408	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T_A=55 ¢J	3.0									A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	200									A
Maximum Instantaneous Forward Voltage at 3.0A DC	1.2									V
Maximum Reverse Current T_A=25 ¢J at Rated DC Blocking Voltage T_A=100 ¢J	5.0 1000									£gA £gA
Maximum Fu Load Reverse Current Full Cycle Average 5"(12.5mm)lead length at T_L=105 ¢J	0.5									mA
Typical Junction capacitance (Note 1)	30									pF
Typical Thermal Resistance (Note 2) R£KJA	20.0									¢J/W
Operating and Storage Temperature Range T_J,T_{STG}	-55 TO +150									¢J

NOTES:

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

RATING AND CHARACTERISTIC CURVES

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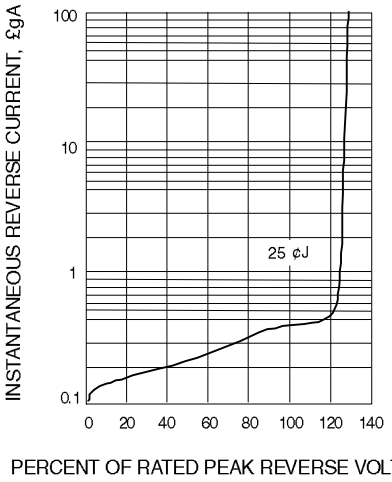

Fig. 1-TYPICAL FORWARD CHARACTERISTICS

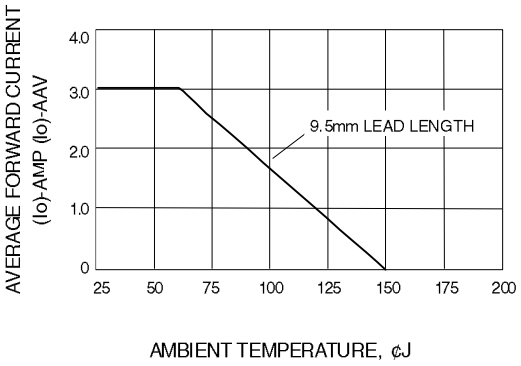

Fig. 2-PEAK FORWARD SURGE CURRENT

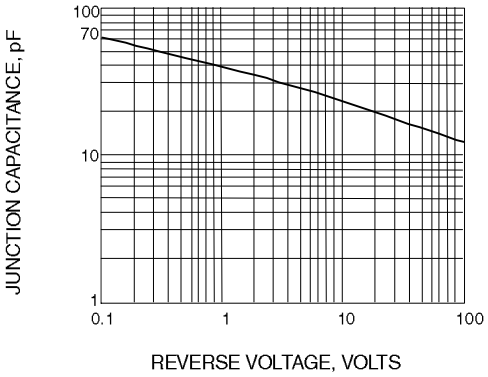

Fig. 3-TYPICAL JUNCTION CAPACITIANCE

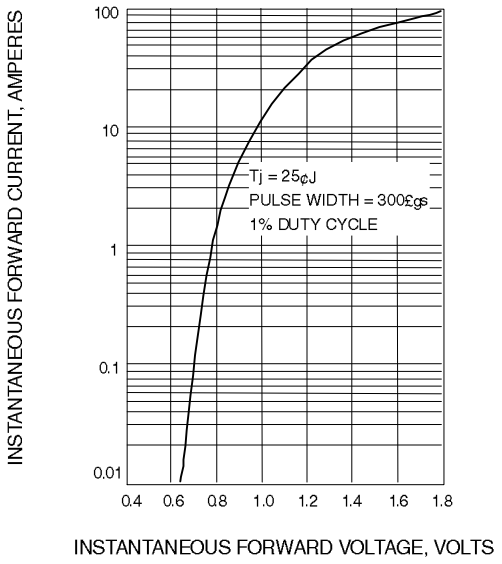

Fig. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

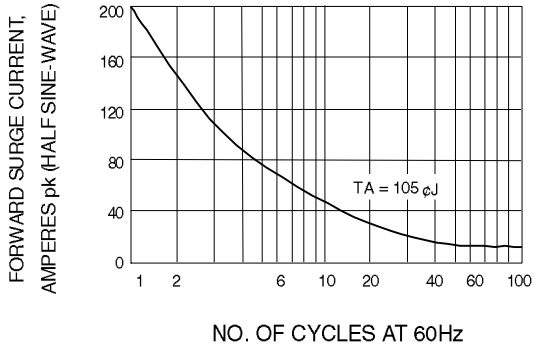

Fig. 5-MAXIMUM OVERLOAD SURGE CURRENT