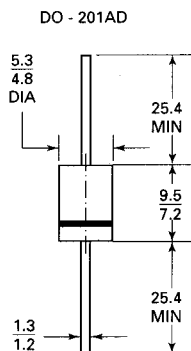


1N5400...1N5408 PLASTIC SILICON RECTIFIERS

FEATURES

- * Low forward voltage
- * High current capability
- * Low leakage current
- * High surge capability
- * Low cost



VOLTAGE RANGE

50 to 1000 Volts

CURRENT

3.0 Amperes

Dimensions in mm

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

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

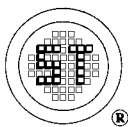
For capacitive load, derate current by 20%.

	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 to $T_A = 150\text{ }^\circ\text{C}$	50	100	200	300	400	500	600	800	1000	V
* Maximum Average Forward Rectified Current .5", (12.5mm) Lead Length at $T_A = 75\text{ }^\circ\text{C}$	3.0									A
* Peak Forward Surge Current 8.3 ms single half sine-wave	150									A
* Maximum Forward Voltage at 3.0A Peak	1.0									V
* Maximum Reverse Current, $T_A = 25\text{ }^\circ\text{C}$ at Rated DC Blocking Voltage $T_A = 150\text{ }^\circ\text{C}$	10 500									μA μA
* Maximum Full Load Reverse Current, Full Cycle Average, .5", (12.5mm) Lead Length $T_A = 105\text{ }^\circ\text{C}$	500									μA
Typical Junction Capacitance (Note 1)	50									pF
* Storage Temperature Range T_A	-65 to + 175									$^\circ\text{C}$
* Operating Temperature Range T_J	-65 to + 170									$^\circ\text{C}$

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

* JEDEC Registered Value.



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1N5400...1N5408 PLASTIC SILICON RECTIFIERS

Fig. 1 – TYPICAL FORWARD CHARACTERISTICS

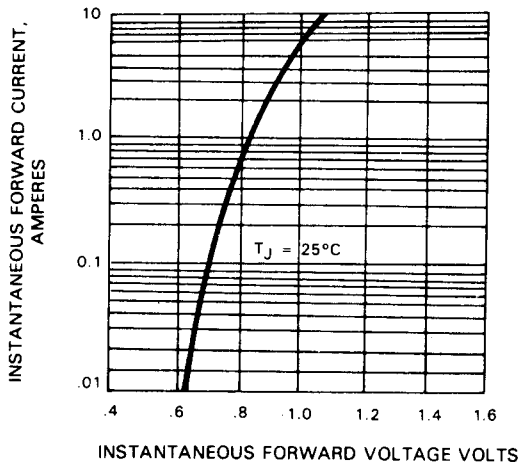


Fig. 2 – PEAK FORWARD SURGE CURRENT

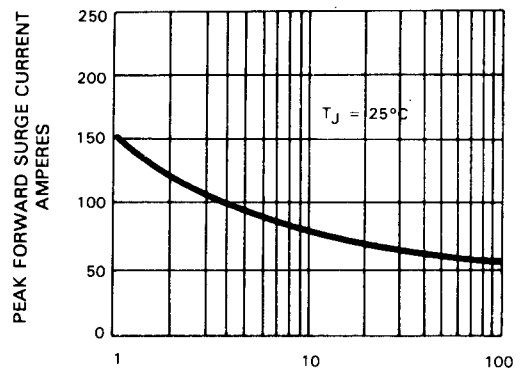


Fig. 3 – FORWARD CURRENT DERATING CURVE

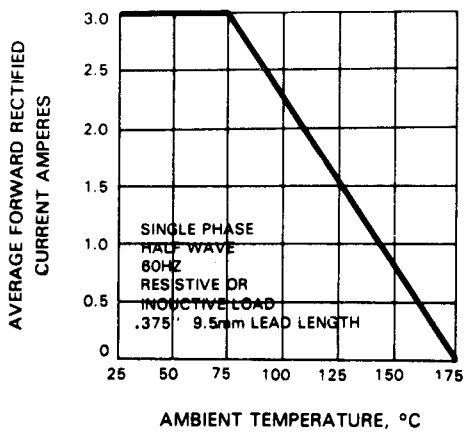
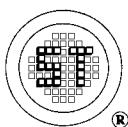
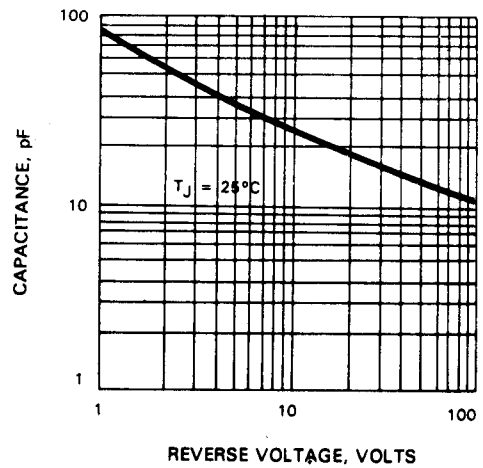


Fig. 4 – TYPICAL JUNCTION CAPACITANCE



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