



查询"1N5404-T"供应商

1N5400 THRU 1N5408

3.0 AMPS. SILICON RECTIFIERS

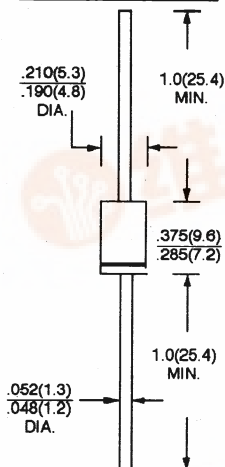
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

3.0 Amperes

DO-201AD



Dimensions in inches and (millimeters)

FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any
- * Weight: 1.18 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%

TYPE NUMBER	SYMBOLS	1N 5400	1N 5401	1N 5402	1N 5404	1N 5406	1N 5407	1N 5408	UNITS
Maximum Recurrent 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 D.C Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375" (9.5mm) lead length @ $T_A = 75^\circ\text{C}$	$I_{F(AV)}$	3.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	200							A
Maximum Instantaneous Forward Voltage at 3.0A	V_F	1.0							V
Maximum D.C Reverse Current @ $T_A = 25^\circ\text{C}$ at Rated D.C Blocking Voltage @ $T_A = 100^\circ\text{C}$	I_R	5.0 50.0							μA μA
Typical Junction Capacitance (Note 1)	C_J	50							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	18							$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	- 65 to + 125							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 65 to + 150							$^\circ\text{C}$

NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance from Junction to Ambient 0.375"(9.5mm) Lead Length.



RATINGS AND CHARACTERISTIC CURVES (1N5400 THRU 1N5408)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

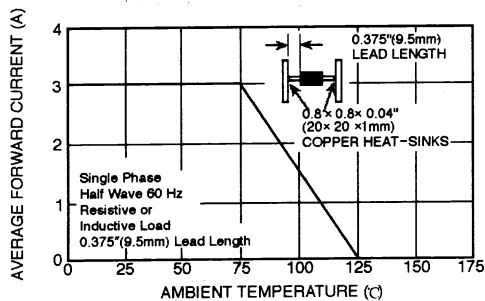


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

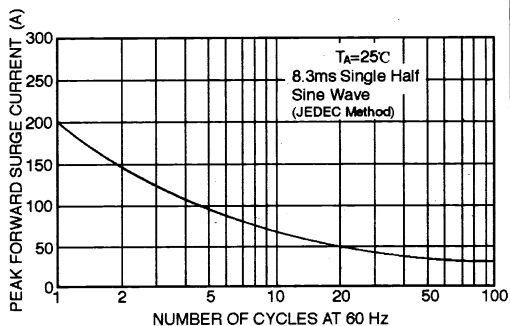


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

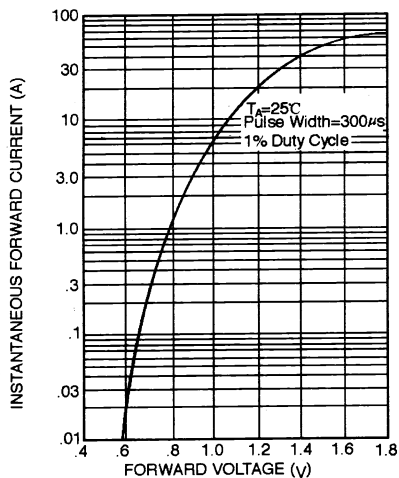


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

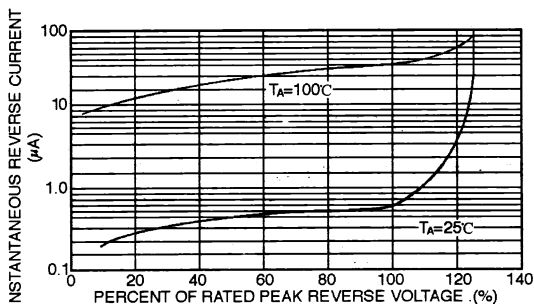


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

