

GENERAL PURPOSE SILICON RECTIFIER

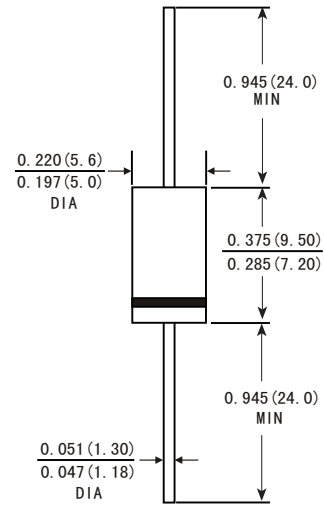
DO-201AD

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Construction utilizes void-free molded plastic technique
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic body
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 0.04 ounce, 1.1 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	1N 5400	1N 5401	1N 5402	1N 5403	1N 5404	1N 5405	1N 5406	1N 5407	1N 5408	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	300	400	500	600	800	1000	VOLTS
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	350	420	560	700	VOLTS
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	500	600	800	1000	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =75°C	I _(AV)	3.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80									Amps
Maximum instantaneous forward voltage at 3.0A	V _F	1.2									Volts
Maximum DC reverse current at rated DC blocking voltage T _A =25°C T _A =150°C	I _R	5.0 500									μA
Typical junction capacitance (NOTE 1)	C _J	30.0									pF
Typical thermal resistance (NOTE 2)	R _{θJA}	20.0									°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-65 to +170									°C

NOTES:

- (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
 (2) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted with 0.8 x 0.8" (20 x 20mm) copper heatsinks
 *JEDEC registered value

RATINGS AND CHARACTERISTIC CURVES 1N5400 THRU 1N5408

FIG. 1 - FORWARD CURRENT DERATING CURVE

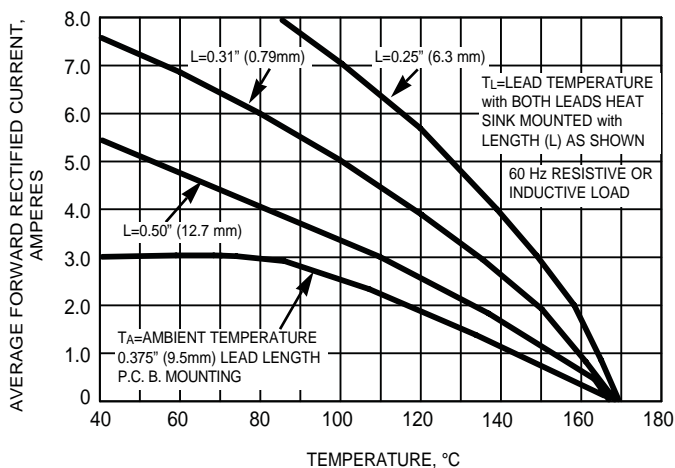


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

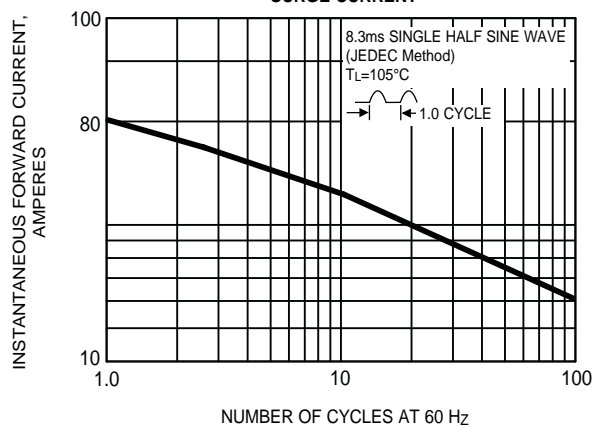


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

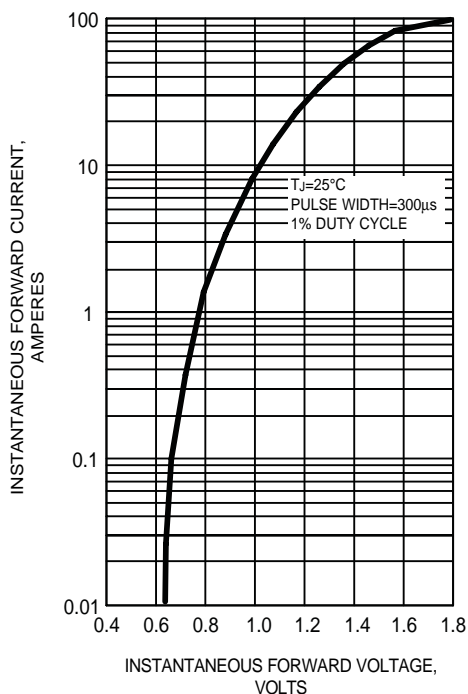


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

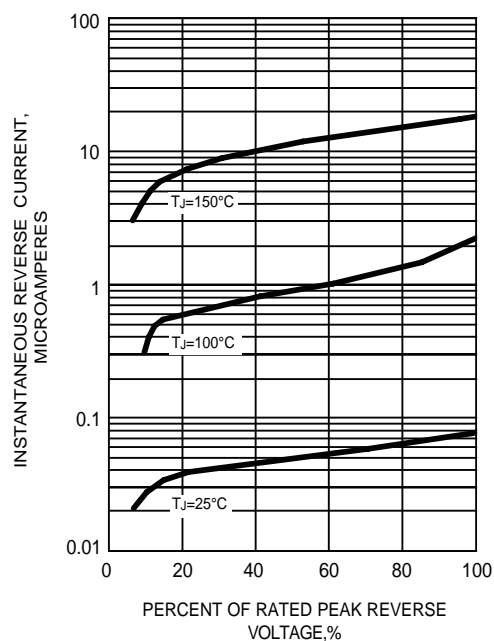


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

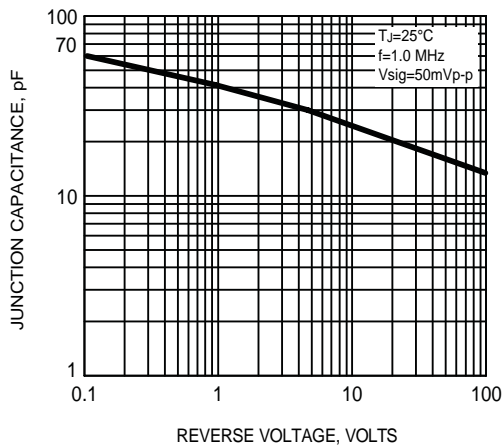
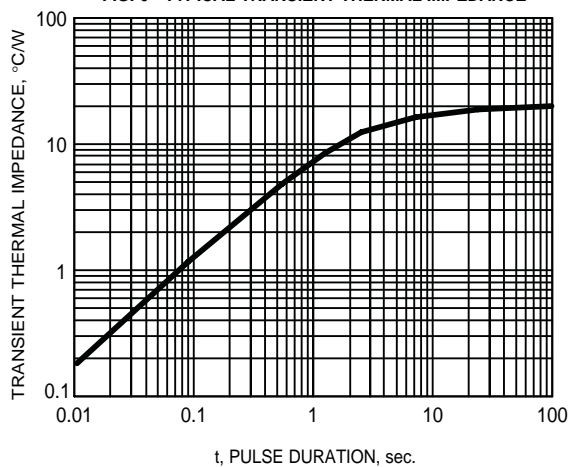
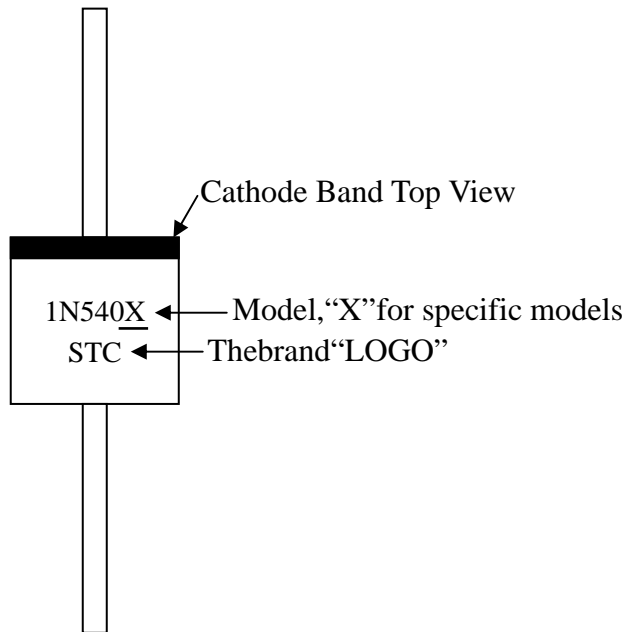


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE





NOTES:

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