



1N5400 - 1N5408

SILICON RECTIFIER

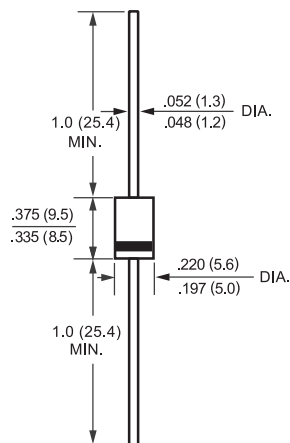
VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 3.0 Amperes

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 1.18 grams

FEATURES

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



Dimensions in inches and (millimeters)

DO-27



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	SYMBOL	1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current .375*(9.5mm) lead length at TL = 105°C	I _O	3.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave Superimposed on rated load (JEDEC Method)	I _{FSM}	200							Amps
Maximum Instantaneous Forward Voltage at 3.0A DC	V _F	1.1							Volts
Maximum DC Reverse Current at Rated DC @T _A = 25°C	I _R	5.0							uAmps
Blocking Voltage @T _A = 100°C		500							
Maximum Full Load Reverse Current Average, Full Cycle .375*(9.5mm) lead length at TL = 75°C			30						
Typical Junction Capacitance (Note)	C _J	40							pF
Typical Thermal Resistance	ROJA	30							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175							°C

NOTES : Measured at 1 MHz and applied reverse voltage of 4.0 volts



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RATING AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

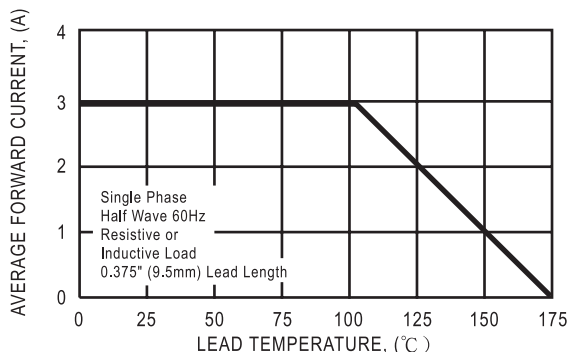


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

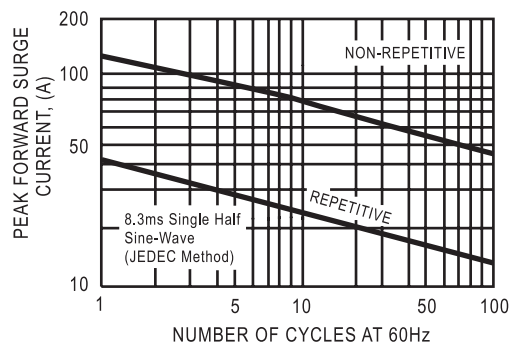


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD VOLTAGE, (V)

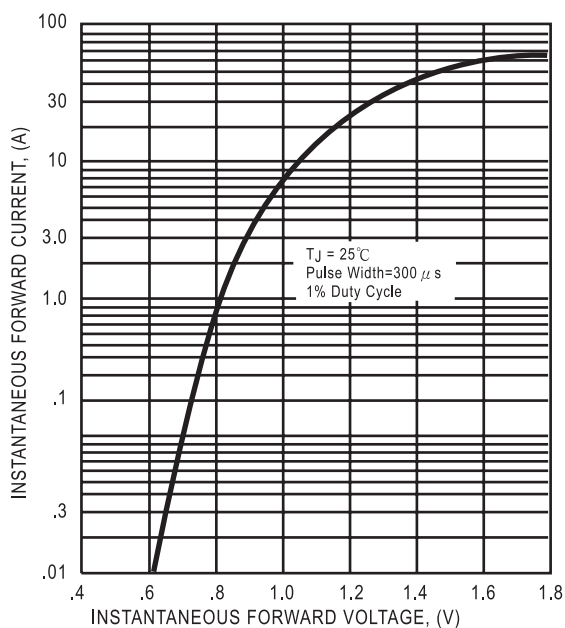


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

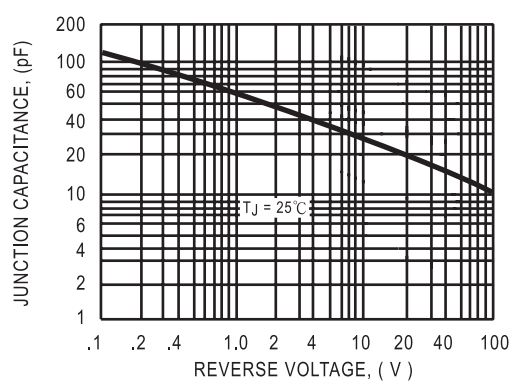
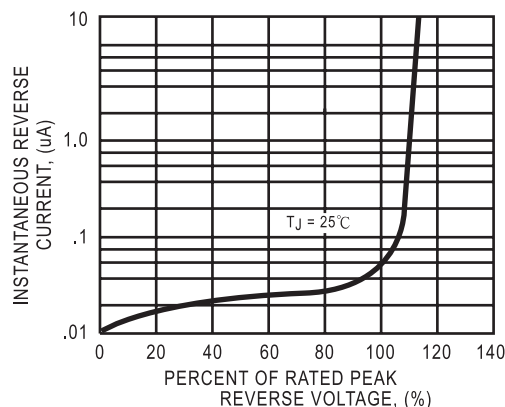


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS



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