

1N5400 THRU 1N5408

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3.0 AMP SILICON RECTIFIERS

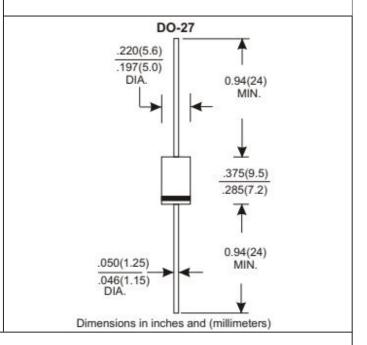
FEATURES

- * 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 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 1.10 grams

VOLTAGE RANGE 50 to 1000 Volts CURRENT 3.0 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current			•	•				
.375"(9.5mm) Lead Length at Ta=75 C		3.0						Α
Peak Forward Surge Current, 8.3 ms single half sine-wave	Э							
superimposed on rated load (JEDEC method)		100						
Maximum Instantaneous Forward Voltage at 3.0A		0.98						
Maximum DC Reverse Current Ta=25 C		5.0						μА
at Rated DC Blocking Voltage Ta=100 C		50						μА
Typical Junction Capacitance (Note 1)		40					pF	
Typical Thermal Resistance R JA (Note 2)		30						C/W
Operating and Storage Temperature Range ТJ, Тsтс		-65—-+150						

NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance from Junction to Ambient .375" (9.5mm) lead length.

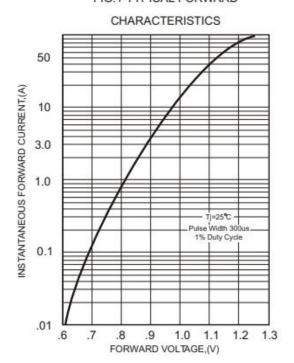


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RATING AND CHARACTERISTIC CURVES (1N5400 THRU 1N5408)

FIG.1-TYPICAL FORWARD



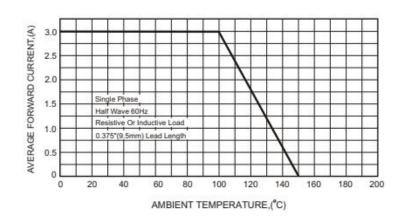


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

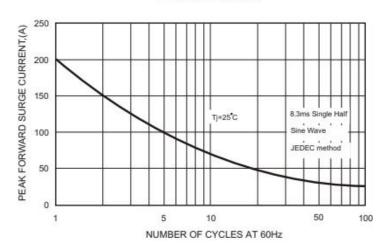


FIG.3 - TYPICAL REVERSE

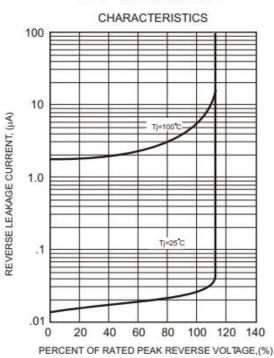


FIG.5-TYPICAL JUNCTION CAPACITANCE

