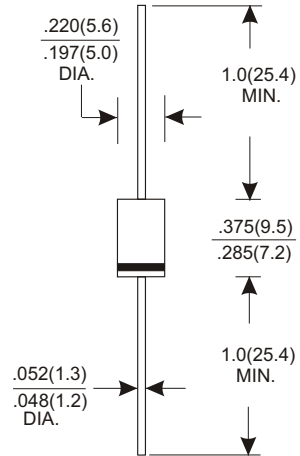


A suffix of "-C" indicates halogen-free & RoHS Compliant



DO-27



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 Lead, Solder Able per MIL-STD-202, Method 208 Guaranteed
- * Polarity: Color Band Denotes Cathode End
- * Mounting Position: Any
- * Weight: 1.10 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise 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							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	200							A
Maximum Instantaneous Forward Voltage at 3.0A	0.95							V
Maximum DC Reverse Current Ta=25°C	5.0							µA
at Rated DC Blocking Voltage Ta=100°C	50							µA
Typical Junction Capacitance (Note 1)	40							pF
Typical Thermal Resistance RθJA (Note 2)	30							°C/W
Operating and Storage Temperature Range Tj, TSTG	-65 ~ +175							°C

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.

RATING AND CHARACTERISTIC CURVES (1N5400 THRU 1N5408)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

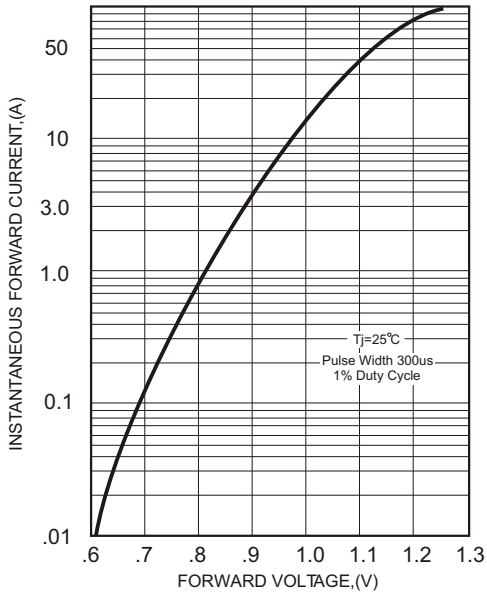


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

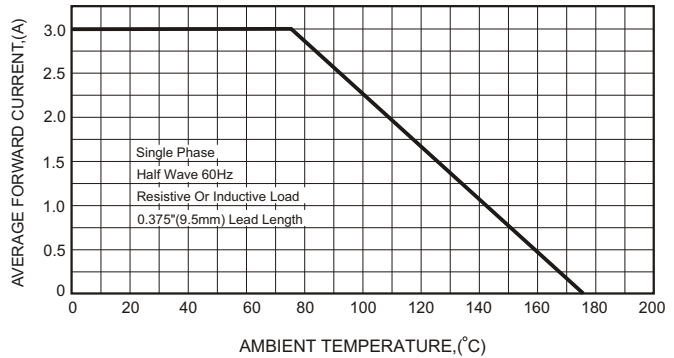


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

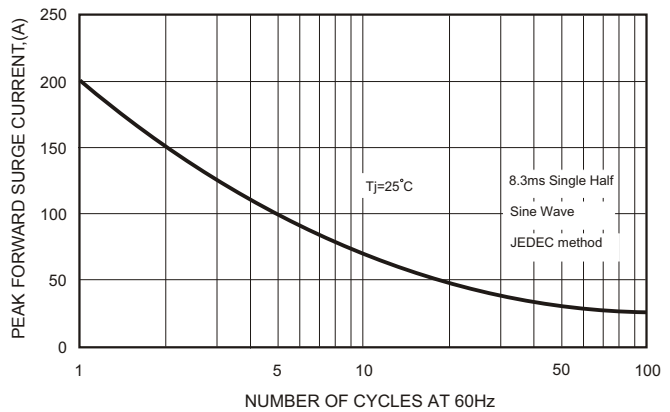


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

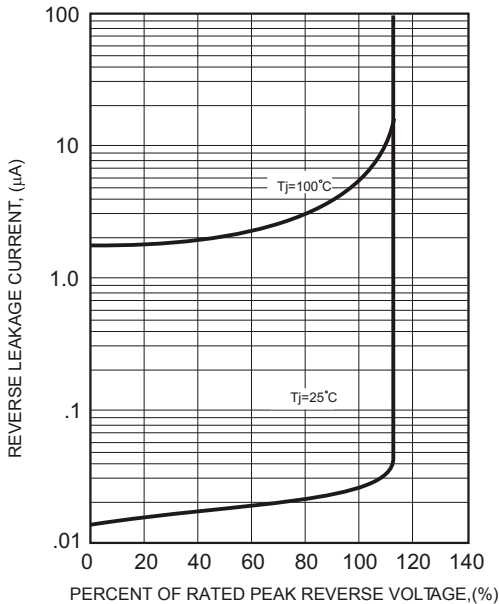


FIG.5-TYPICAL JUNCTION CAPACITANCE

