

Voltage Range

50 to 1000 Volts

Current

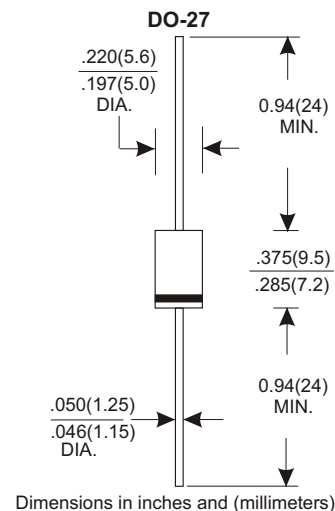
3.0 Amperes

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: 1.10 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	1N5408	UNITS
Maximum Recurrent Peak Reverse Voltage	1000	V
Maximum RMS Voltage	700	V
Maximum DC Blocking Voltage	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)	100	A
Maximum Instantaneous Forward Voltage at 3.0A	0.98	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 R JA (Note 2)	30	°C/W
Operating and Storage Temperature Range Tj, Tstg	-65 _ +150	°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

FIG.1-Typical Forward
Characteristics

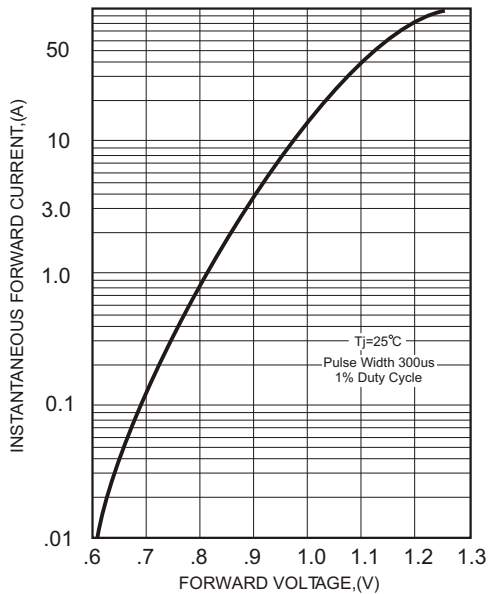


FIG.2-Typical Forward Current Derating Curve

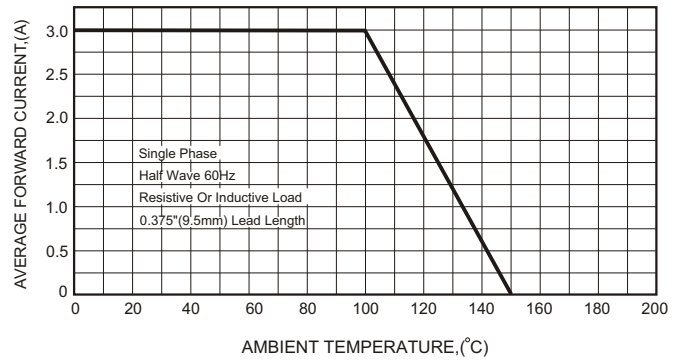


FIG.4-Maximum Non-Repetitive Forward
Surge Current

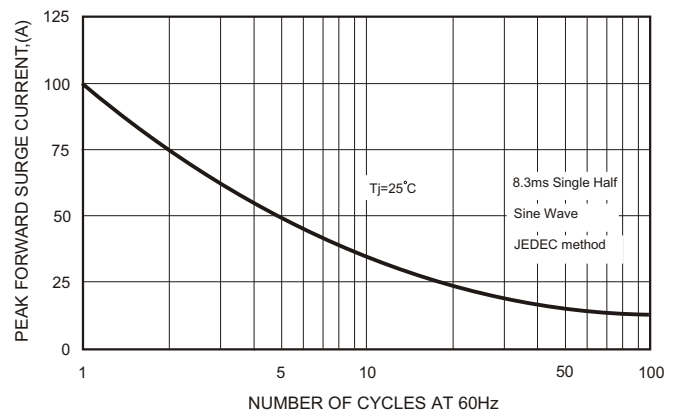


FIG.3 - Typical Reverse
Characteristics

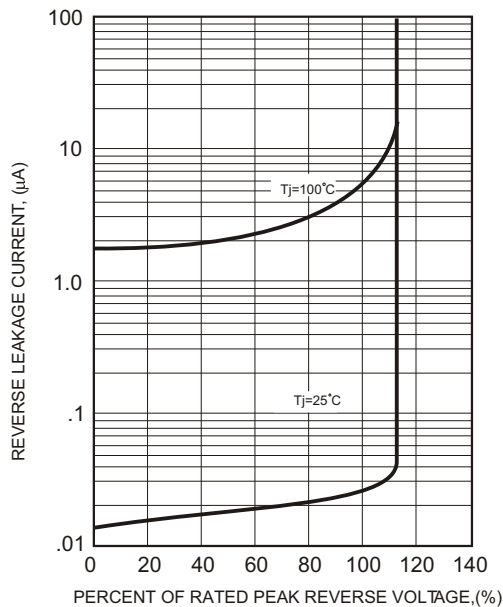
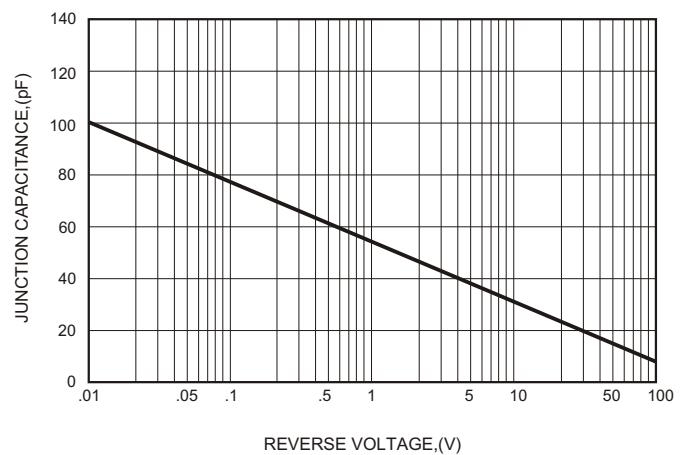


FIG.5-Typical Junction Capacitance



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