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

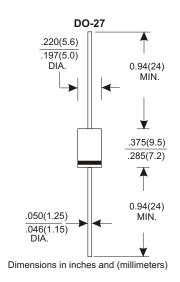
Epoxy: UL 94V-0 rate flame retardant

Lead: Axial leads, solderable per MIL-STD-202,

method 208 guranteed

Polarity: Color band denotes cathode end

Mounting position: Any Weight: 1.10 grams





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	FR307	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	А
Peak Forward Surge Current, 8.3 ms single half si superimposed on rated load (JEDEC method)	ine-wave 125	А
Maximum Instantaneous Forward Voltage at 3 0A	13	V
Maximum DC Reverse Current Ta=2	5°C 5.0	μΑ
at Rated DC Blocking Voltage Ta=1	00°C 150	μА
Maximum Reverse Recovery Time (Note 1)	500	S
Typical Junction Capacitance (Note 2)	60	pF
Operating and Storage Temperature Range TJ, Ts	тg -65—+150	С

NOTES

- 1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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Rating And Characteristic Curves

FIG.1-Typical Forward Characteristics

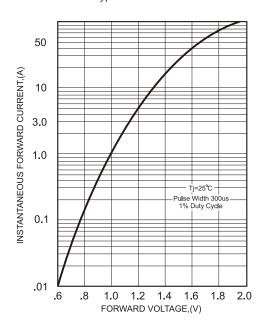
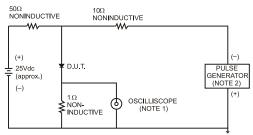


FIG.3-Test Circuit Diagram And Reverse Recovery Time Characteristics



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF.

2. Rise Time= 10ns max., Source Impedance= 50 ohms.

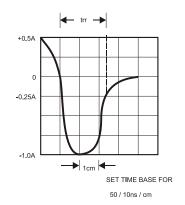


FIG.2-Typical Forward Current Derating Curve

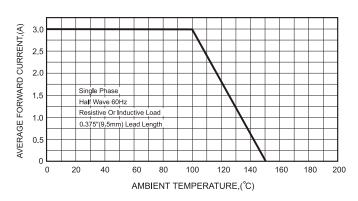


FIG.4-Maximum Non-Repetitive Forward Surge Current

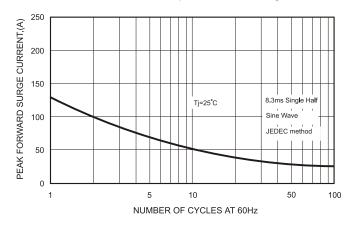
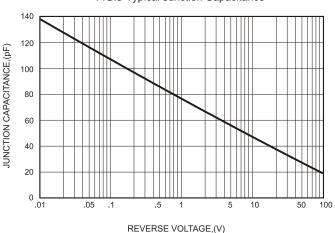


FIG.5-Typical Junction Capacitance



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