

# 1N5400 THRU 1N5408



## 3.0 AMP SILICON RECTIFIERS



### FEATURES

- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* High surge current capability

### MECHANICAL DATA

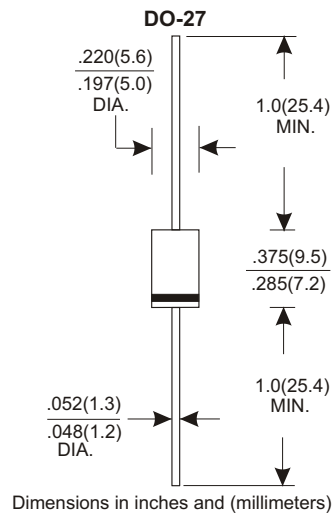
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

### VOLTAGE RANGE

50 to 1000 Volts

### CURRENT

3.0 Amperes



## 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  | 1.0        |        |        |        |        |        |        | 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 — +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 (1N5400 THRU 1N5408)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

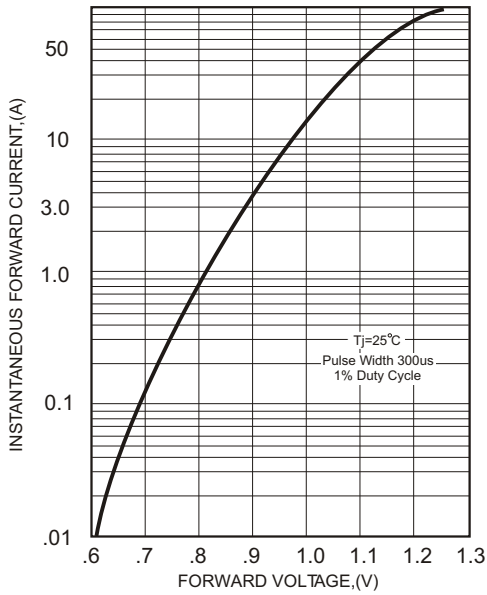


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

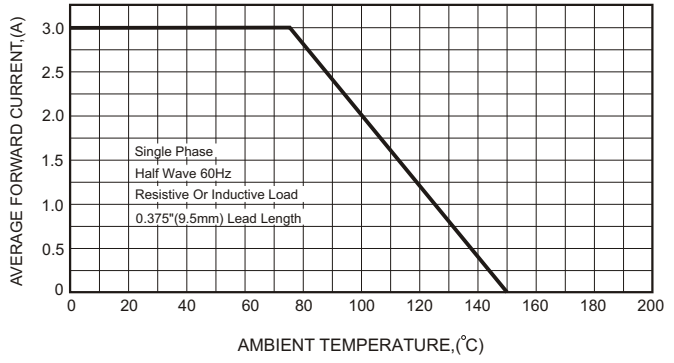


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

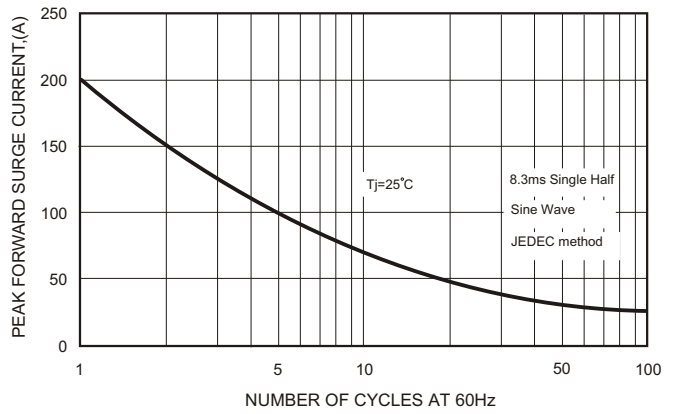


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

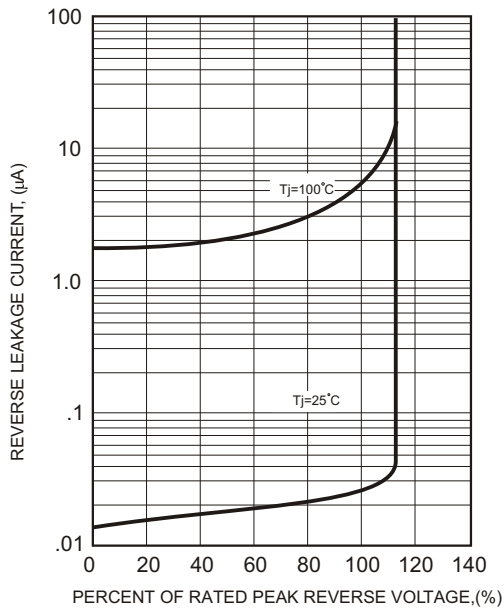
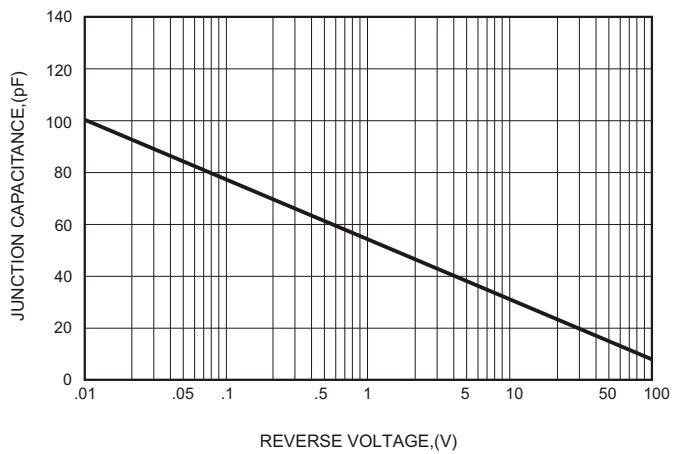


FIG.5-TYPICAL JUNCTION CAPACITANCE



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