



# Silicon Rectifiers

## 1N5400 THRU 1N5408 50 to 1000 V 3.0 A

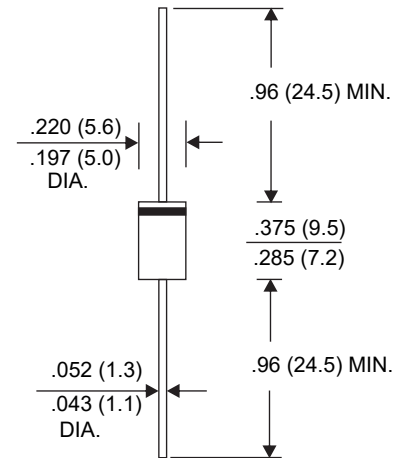
DO-27(DO-201AD)

### Features

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

### Mechanical Data

- Case: Molded plastic
- Epoxy: UL 94V-O rate flame retardant
- Lead: Axial leads, solder able per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode end



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Ratings at 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  | Symbols            | 1N5400                     | 1N5401 | 1N5402 | 1N5404 | 1N5406 | 1N5407 | 1N5408 | Units |
|--|--------------------|----------------------------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage   | $V_{RRM}$          | 50                         | 100    | 200    | 400    | 600    | 800    | 1000   | Volts |
| Maximum RMS Voltage  | $V_{RMS}$          | 35                         | 70     | 140    | 280    | 420    | 560    | 700    | Volts |
| Maximum DC Blocking Voltage  | $V_{DC}$           | 50                         | 100    | 200    | 400    | 600    | 800    | 1000   | Volts |
| Maximum Average Forward Rectified Current at $T_A=25^\circ C$                                      | $I_{(AV)}$         | 3.0                        |        |        |        |        |        |        | Amp   |
| Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)  | $I_{FSM}$          | 80                         |        |        |        |        |        |        | Amp   |
| Maximum Forward Voltage at 3.0A and $T_A=25^\circ C$   | $V_F$              | 1.0                        |        |        |        |        |        |        | Volts |
| Maximum DC reverse current at rated DC blocking voltage per $T_J=25^\circ C$ and $T_J=100^\circ C$ | $I_R$              | 5.0<br>100                 |        |        |        |        |        |        | uAmp  |
| Typical Junction Capacitance (Note 1)  | $C_J$              | 35                         |        |        |        |        |        |        | pF    |
| Typical Thermal Resistance (Note 2)  | $R_{\theta JA}$    | 30                         |        |        |        |        |        |        | °C/W  |
| Operating and Storage Temperature Range  | $T_J$<br>$T_{stg}$ | -55 to +125<br>-55 to +150 |        |        |        |        |        |        | °C    |

#### NOTES:

1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.
2. Thermal Resistance from Junction to Ambient .375" (9.5mm) Lead Length.



## RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CHARACTERISTICS

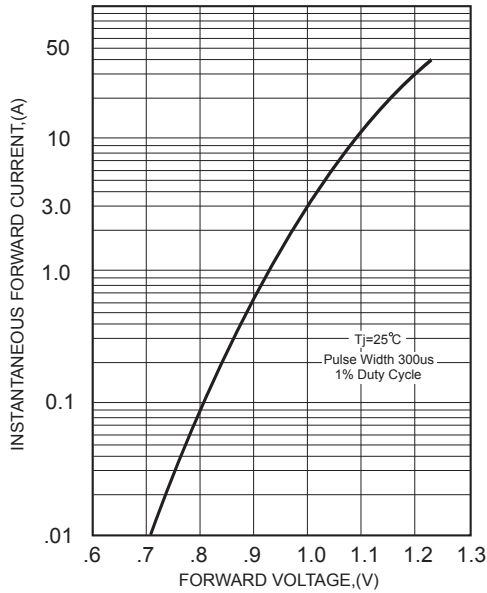


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

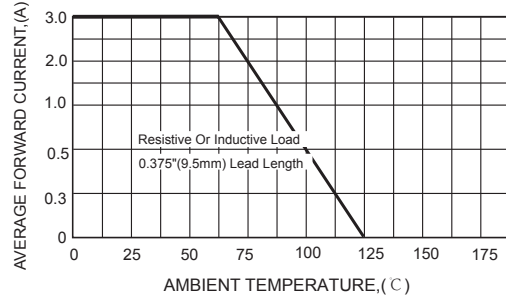


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

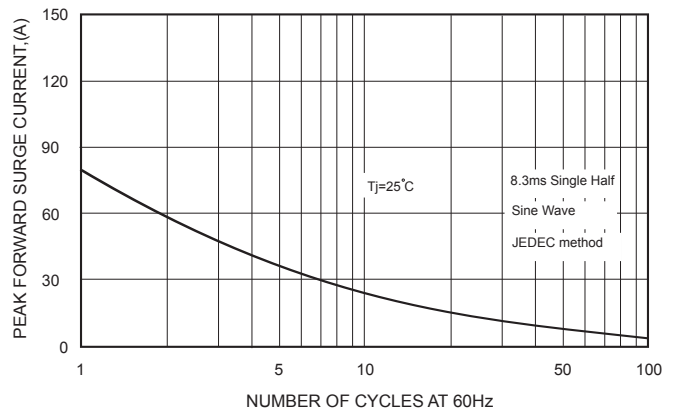
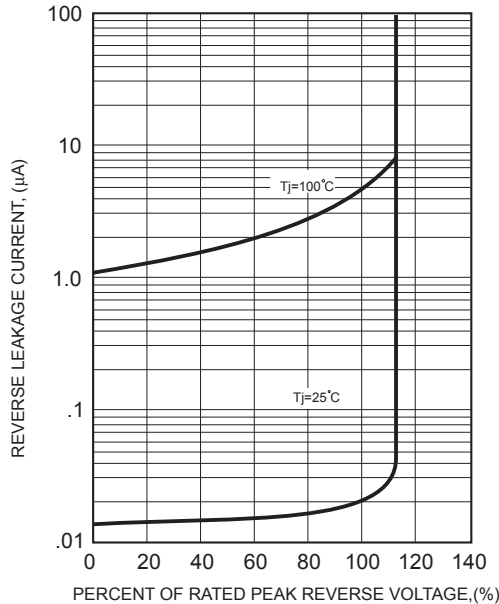


FIG.3 - TYPICAL REVERSE CHARACTERISTICS



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