

| 1N5400 THRU 1N5408 | |
|--|---|
| 3.0 AMPS. Silicon Rectifiers | |
| Features <ul style="list-style-type: none"> • Low forward voltage drop • High current capability • High reliability • High surge current capability | Voltage Range 50 to 1000 Volts Current 3.0Amperes DO-201AD |
| Mechanical Data <ul style="list-style-type: none"> • Cases: Molded plastic • Epoxy: UL 94V-O rate flame retardant • Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed • Polarity: Color band denotes cathode end • High temperature soldering guaranteed: 250°C/10 seconds/.375" (9.5mm) lead lengths at 5 lbs., (2.3kg) tension • Weight: 1.2 grams | <p style="text-align: center;">Dimensions in inches and (millimeters)</p> |

Maximum Ratings and Electrical Characteristics
 Rating at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%

| Symbols | 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 @ T _A = 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 @ 3.0A | 1.0 | | | | | | | V |
| Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =100°C | 5.0 100 | | | | | | | uA uA |
| Maximum Full Load Reverse Current, Full Cycle Average .375" (9.5mm) Lead Length @ T _L =75°C | 30 | | | | | | | uA |
| Typical Junction Capacitance (Note 1) | 50 | | | | | | | pF |
| Typical Thermal Resistance R _{θJA} (Note 2) | 18 | | | | | | | °C/W |
| Operating Temperature Range T _J | -65 to +125 | | | | | | | °C |
| Storage Temperature Range T _{STG} | -65 to +150 | | | | | | | °C |

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

RATINGS AND CHARACTERISTIC CURVES (1N5400 THRU 1N5408)

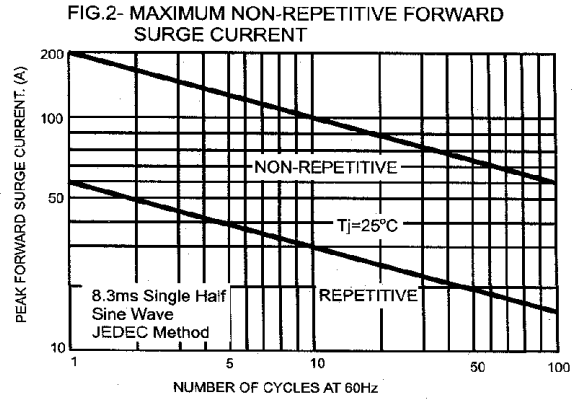
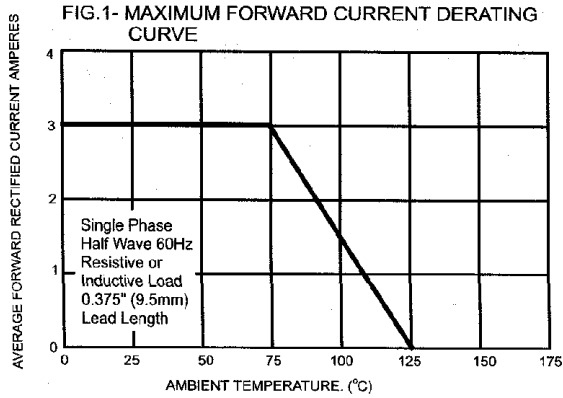


FIG.3- TYPICAL FORWARD CHARACTERISTICS

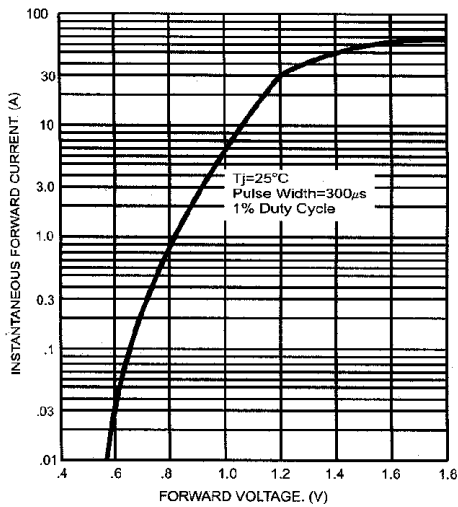


FIG.4- TYPICAL JUNCTION CAPACITANCE

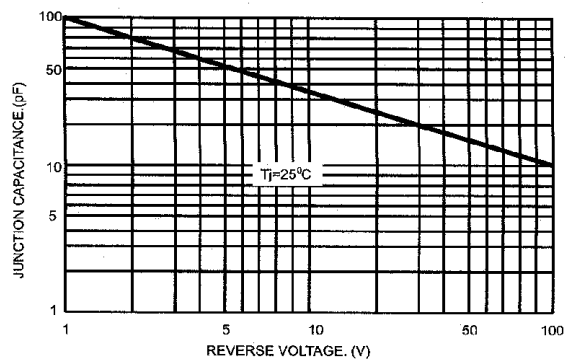


FIG.5- TYPICAL REVERSE CHARACTERISTICS

