



1N5400 THRU 1N5408

PLASTIC SILICON RECTIFIER

VOLTAGE RANGE: 50 TO 1000VOLTS

CURRENT: 3.0AMPERES

FEATURES

- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol, Isopropanol and similar solvents
- The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

Case: JEDEC DO-27, molded plastic

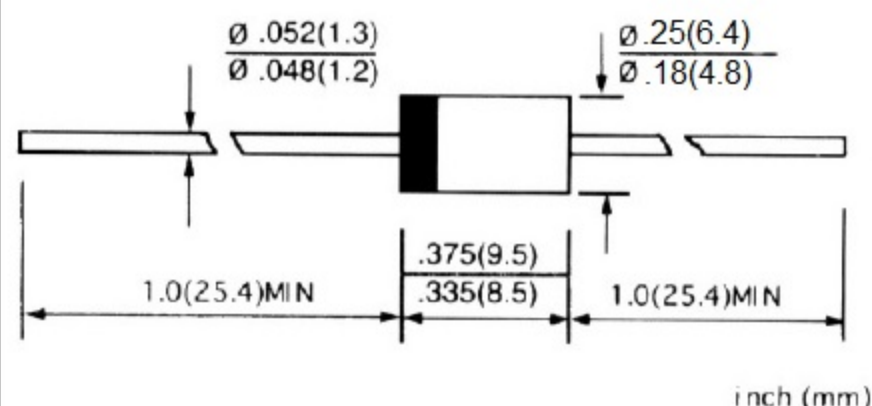
Terminals: Axial leads, solder able per MIL-STD-202, Method 208

Polarity: Color band denotes cathode

Weight: 0.041 ounce, 1.15 gram

Mounting position: Any

DO-27



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%.

Parameters		1N 5400	1N 5401	1N 5402	1N 5403	1N 5404	1N 5405	1N 5406	1N 5407	1N 5408	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current 9.5mm Lead Length, @ $T_A=75^\circ\text{C}$	$I_{(AV)}$	3.0									A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load @ $T_J=125^\circ\text{C}$	I_{FSM}	200									A
Maximum Instantaneous Forward Voltage at 3.0A	V_F	1.0									V
Maximum Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$	I_R	10 100									μA
Typical Junction Capacitance (Note 1)	C_j	35									pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	20									$^\circ\text{C/W}$
Operating Junction Temperature Range	T_j	-65---+150									$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65---+150									$^\circ\text{C}$

NOTE: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal Resistance Junction to Ambient.

RATINGS AND CHARACTERISTIC CURVES

