

3A Silicon Rectifiers

1N5400 THRU 1N5408 50 to 1000 V 3A

FEATURES

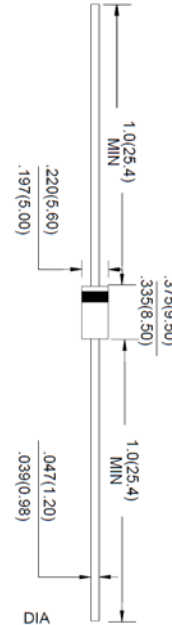
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability



MECHANICAL DATA

- Case: Molded plastic
- Mark Description: The white section of the diode polarity (negative) to identify, CP marking Logo, "XX" for the product category label, "YYYY" for the product type marking, "ZZZ" for use in product date code will change
- 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: 1.1gram

DO-201AE



Unit: in inches (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	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) Lead Length @ T =75°C	I(AV)	3.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	IFSM	200							Amp
Maximum instantaneous Forward Voltage @ 3.0A	VF	1.0							Volts
Maximum Reverse Current at Rated DC Blocking Voltage	IR	5.0 50							uAmp
Typical Junction Capacitance (Note 1)	CJ	30							pF
Typical Thermal Resistance (Note 2)	RθJA	20							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Tstg								

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 (1N5400 THRU 1N5408)

