

CTC 1N5400-1N5408 RECTIFIER Datasheet

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FEATURES

Low cost

Diffused junction

Low forward voltage drop

Low reverse leakage current

High current capability

The plastic material carries UL recognition 94V-0

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PLASTIC SILICON RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts
FORWARD CURRENT - 3.0 Amperes

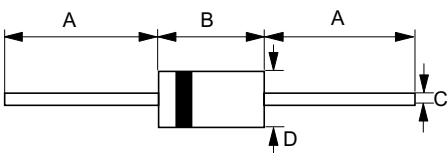
FEATURES

- Low cost
- Diffused junction
- Low forward voltage drop
- Low reverse leakage current
- High current capability
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MECHANICAL DATA

- Case : JEDEC DO-201AD molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.04 ounces, 1.2 grams
- Mounting position : Any

DO-201AD



DO-201AD		
Dim.	Min.	Max.
A	25.4	-
B	7.20	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in millimeter		

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%

CHARACTERISTICS	SYMBOL	1N 5400	1N 5401	1N 5402	1N 5403	1N 5404	1N 5405	1N 5406	1N 5407	1N 5408	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current @TA=75°C	I(AV)	3.0									A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	IFSM	200									A
Maximum forward Voltage at 3.0A DC	VF	1.1									V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ =25°C @TJ =100°C	IR	5 50									uA
Typical Junction Capacitance (Note 1)	CJ	50						35			pF
Typical Thermal Resistance (Note 2)	RθJA	20									°C/W
Operating Temperature Range	TJ	-55 to +150									°C
Storage Temperature Range	TSTG	-55 to +150									°C

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2.Thermal Resistance Junction to Ambient.

RATINGS AND CHARACTERISTIC CURVES

