

# CTC 1N5391-1N5399(DO-15) RECTIFIER Datasheet

<http://www.manuallib.com/ctc/1n5391-1n5399-do-15-rectifier-datasheet.html>

## 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 - 1.5 Amperes

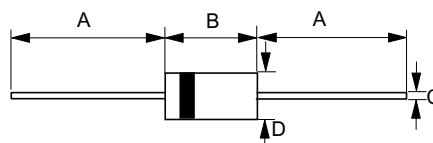
### FEATURES

- Low cost
- Diffused junction
- Low forward voltage drop
- Low reverse leakage current
- High current capability
- The plastic material carries UL recognition 94V-0

### MECHANICAL DATA

- Case : JEDEC DO-15 molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.015 ounces, 0.4 grams
- Mounting position : Any

### DO-15



Dim.	DO-15	
	Min.	Max.
A	25.4	-
B	5.80	7.60
C	0.70 $\varnothing$	0.90 $\varnothing$
D	2.60 $\varnothing$	3.60 $\varnothing$

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	1N	1N	1N	1N	1N	1N	1N	1N	UNIT
		5391	5392	5393	5394	5395	5396	5397	5398	5399	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Lengths @T <sub>L</sub> =70°C	I <sub>AV</sub>	1.5									A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50									A
Maximum forward Voltage at 1.5A DC	V <sub>F</sub>	1.1									V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T <sub>J</sub> =25°C @T <sub>J</sub> =100°C	I <sub>R</sub>	5.0 50									uA
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	15									pF
Typical Thermal Resistance (Note 2)	R <sub>θJL</sub>	50									°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150									°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150									°C

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

2.Thermal Resistance Junction to Lead .

## RATINGS AND CHARACTERISTIC CURVES

