

PLASTIC SILICON RECTIFIERS

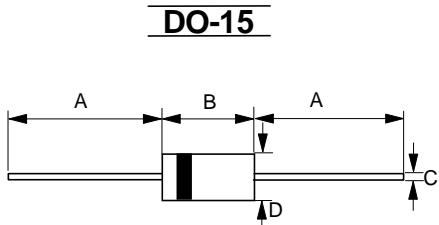
REVERSE VOLTAGE - 50 to 1000 Volts
 FORWARD CURRENT - 1.5 Amperes

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.	Min.	Max.
A	25.4	-
B	5.80	7.60
C	0.71 Ø	0.86 Ø
D	2.60 Ø	3.60 Ø

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 5391	1N 5392	1N 5393	1N 5394	1N 5395	1N 5396	1N 5397	1N 5398	1N 5399	UNIT
Maximum Recurrent Peak Reverse Voltage	V _R RM	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V _R M _S	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	V _D C	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Lengths @T _L =70°C	I _A V)						1.5				A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I _F SM						50				A
Maximum forward Voltage at 1.5A DC	V _F					1.1					V
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =100°C	I _R					5.0	50				uA
Typical Junction Capacitance (Note 1)	C _J				20						pF
Typical Thermal Resistance (Note 2)	R _θ JL			26							°C/W
Operating Temperature Range	T _J				-55 to +125						°C
Storage Temperature Range	T _{STG}				-55 to +150						°C

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

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2.Thermal Resistance Junction to Lead .

RATING AND CHARACTERISTIC CURVES

1N5391 thru 1N5399

