

AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

1N5391 - 1N5399

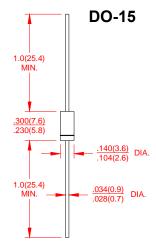
Reverse Voltage - 50 to 1000 V Forward Current - 1.5 A

FEATURES

- Low cost construction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 secods/.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.012 ounce, 0.33 grams



Dimensions in inches and (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%

		SYMBOLS	1N 5391	1N 5392	1N 5393	1N 5394	1N 5395	1N 5396	1N 5397	1N 5398	1N 5399	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS Voltage		V_{RMS}	35	70	140	210	280	350	420	560	700	Volts
Maximum DC Blocking Voltage		V_{DC}	50	100	200	300	400	500	600	800	100	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at T_A = 50 $^{\circ}$ C		$I_{(AV)}$	1.5									Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I_{FSM}	50								Amps	
Maximum Instantaneous Forward Voltage @ 1.0A		V_{F}	1.1								Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	$T_A = 25$ °C $T_A = 100$ °C	I_R	5.0 50							μА		
Maximum Full Load Reverse Current, full cycle average 0.375"(9.5mm)lead length at T_L =75 $^{\circ}$ C		$I_{R(AV)}$	30								μА	
Typical Junction Capacitance (Note 1)		C_{J}	13									pF
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	50									°C/W
Operating Junction Temperature Range		T_{J}	-55 to +150									$^{\circ}$
Storage Temperature Range		T_{STG}	-55 to +150									$^{\circ}\!\mathbb{C}$

Notes

- 1. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.
- 2. Thermal Resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.board mounted with 0.2" \times 0.2" (5.0 \times 5.0 mm) copper pads.

This PDF is a property of Master Instrument Corporation.

Email: Sales@micindia.com Website: www.micindia.com

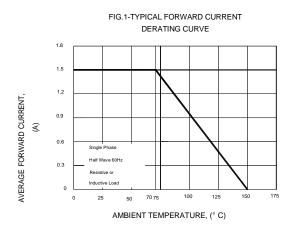


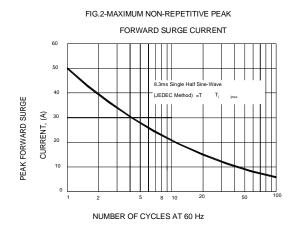
AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

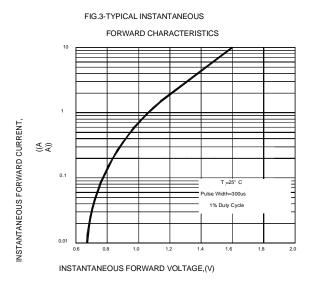
1N5391 - 1N5399

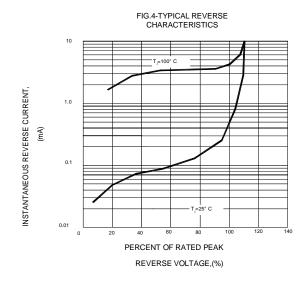
Reverse Voltage - 50 to 1000 V Forward Current - 1.5 A

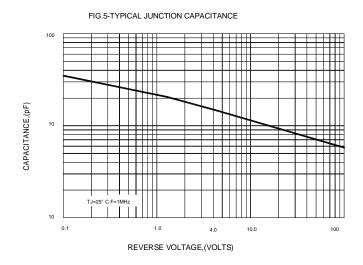
RATING AND CHRACTERISTIC CURVES 1N539 - 1N5399











This PDF is a property of Master Instrument Corporation.

Email: Sales@micindia.com Website: www.micindia.com