

Voltage Range - 50 to 1000 V Forward Current - 1.5 Ampere

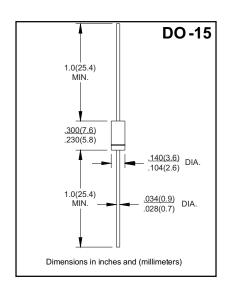
AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

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

- 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
- Case: Transfer molded plastic



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%

PARAMETER		BOLS	1N 5391	1N 5392	1N 5393	1N 5394	1N 5395	1N 5396	1N 5397	1N 5398	1N 5399	UNIT
Maximum Repetitive Peak Reverse Voltage		RRM	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS Voltage		RMS	35	70	140	210	280	350	420	560	700	Volts
Maximum DC Blocking Voltage		DC	50	100	200	300	400	500	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at T_A = 50 $^{\circ}$ C		AV)	1.5									Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		FSM	50								Amps	
Maximum Instantaneous Forward Voltage @ 1.0A		V_{F}	1.1									Volts
DC Placking Valtage per element		I_R		5.0								
1 _A -	100℃		50									<u> </u>
Maximum Full Load Reverse Current, full cycle average 0.375"(9.5mm)lead length at T _L =75°C		(AV)	30									μΑ
Typical Junction Capacitance (Note 1)		$\mathbb{C}_{\mathtt{J}}$	13									pF
Typical Thermal Resistance (Note 2)		θЈΑ	50									°C/W
Operating Junction Temperature Range		$\Gamma_{ m J}$	-55 to +150									$^{\circ}$ C
Storage Temperature Range		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.

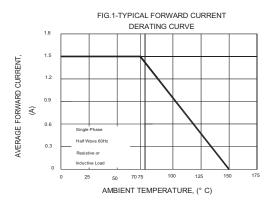
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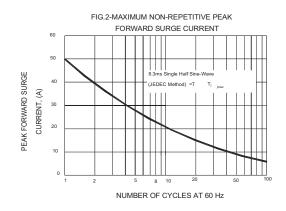


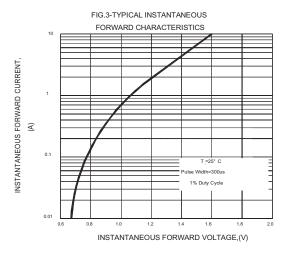
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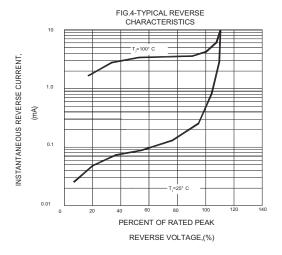
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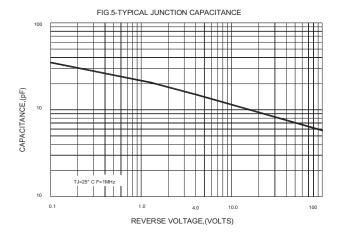
RATING AND CHARACTERISTIC CURVES 1N5391 - 1N5399











Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

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