

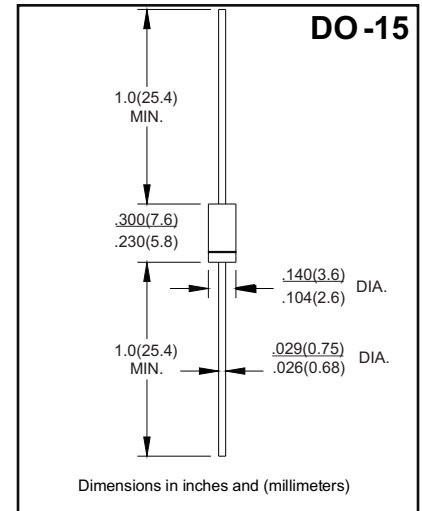
## AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

### FEATURES

- High Performance & Reliability best suited for Automotive application
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:  
260/10 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%

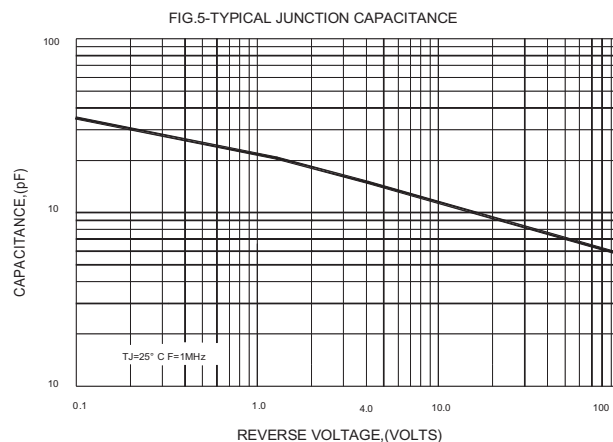
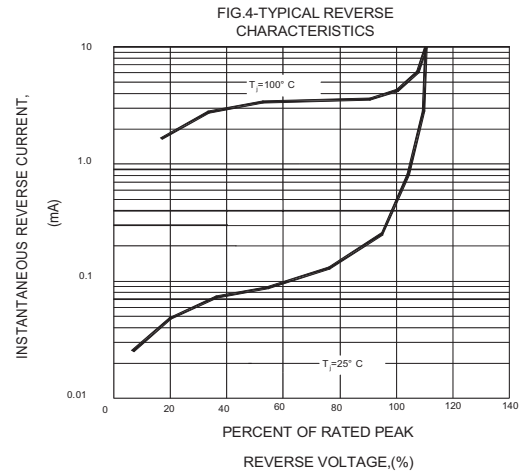
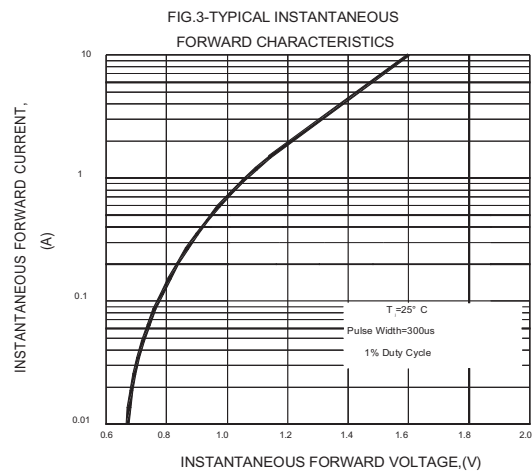
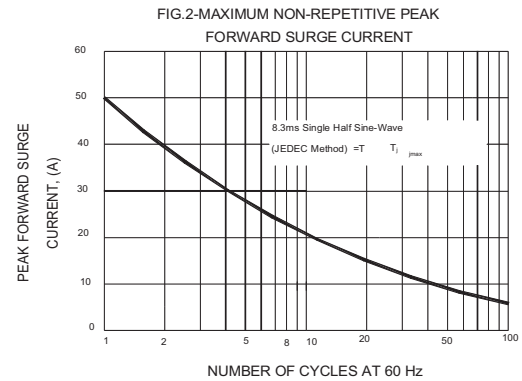
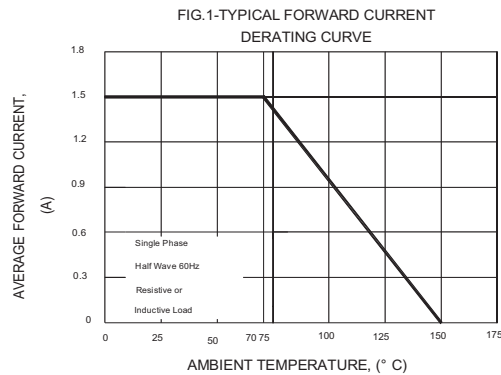
PARAMETER		SYMBOLS	1N 5391	1N 5392	1N 5393	1N 5394	1N 5395	1N 5396	1N 5397	1N 5398	1N 5399	UNIT
Maximum Repetitive Peak Reverse Voltage		V <sub>RRM</sub>	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS Voltage		V <sub>RMS</sub>	35	70	140	210	280	350	420	560	700	Volts
Maximum DC Blocking Voltage		V <sub>DC</sub>	50	100	200	300	400	500	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at T <sub>A</sub> = 50℃		I <sub>(AV)</sub>	1.5									Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I <sub>FSM</sub>	50									Amps
Maximum Instantaneous Forward Voltage @ 1.0A		V <sub>F</sub>	1.1									Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	T <sub>A</sub> = 25℃	I <sub>R</sub>	5.0									μA
	T <sub>A</sub> = 100℃		50									
Maximum Full Load Reverse Current, full cycle average 0.375"(9.5mm)lead length at T <sub>L</sub> =75℃		I <sub>R(AV)</sub>	30									μA
Typical Junction Capacitance (Note 1)		C <sub>J</sub>	13									pF
Typical Thermal Resistance (Note 2)		R <sub>θJA</sub>	50									℃/W
Operating Junction Temperature Range		T <sub>J</sub>	-55 to +150									℃
Storage Temperature Range		T <sub>STG</sub>	-55 to +150									℃

### Notes:

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

## AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

### 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.