



AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

1N5391 THRU 1N5399

VOLTAGE RANGE
CURRENT

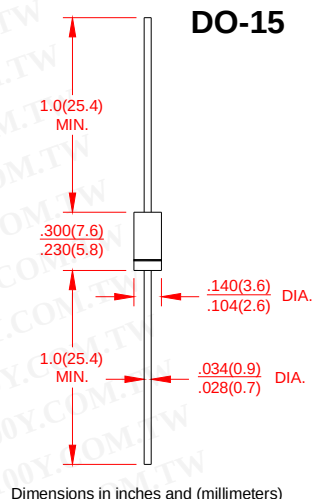
50 to 1000 Volts
1.5 Amperes

FEATURES

- Low coat 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 = 70°C		I _(AV)	1.5									Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	30									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	I _R	5.0									µA
	T _A = 100°C		50									
Maximum Full Load Reverse Current, full cycle average 0.375”(9.5mm)lead length at T _L =75 °C		I _{R(AV)}	30									µA
Typical Junction Capacitance (Note 1)		C _J	13									pF
Typical Thermal Resistance (Note 2)		R _{θJA}	50									°C/W
Operating Junction Temperature Range		T _J	-55 to +150									°C
Storage Temperature Range		T _{STG}	-55 to +150									°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 $\times$ 5.0mm) copper pads.

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

1N5391 THRU 1N5399

VOLTAGE RANGE
CURRENT

50 to 1000 Volts
1.5 Amperes

RATING AND CHARACTERISTIC CURVES 1N5391 Thru 1N5399

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

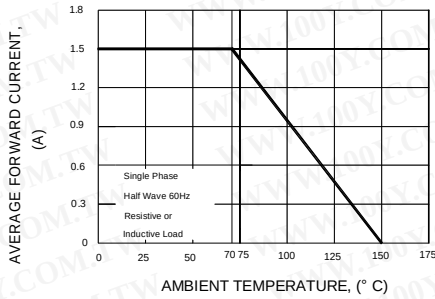


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

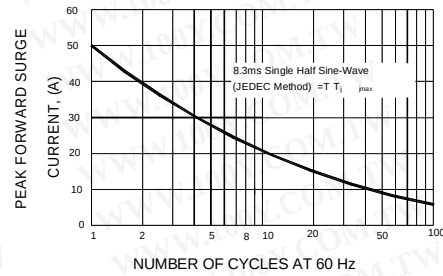


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

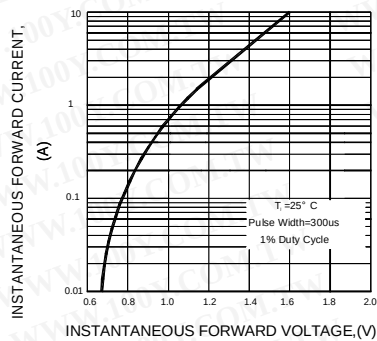


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

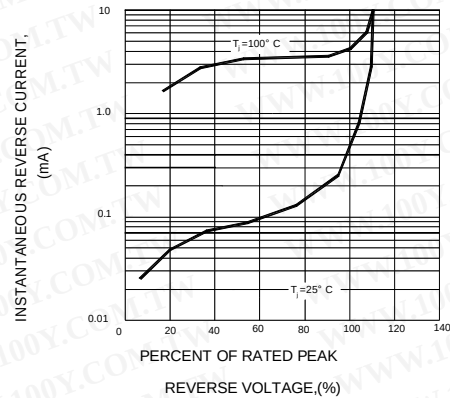
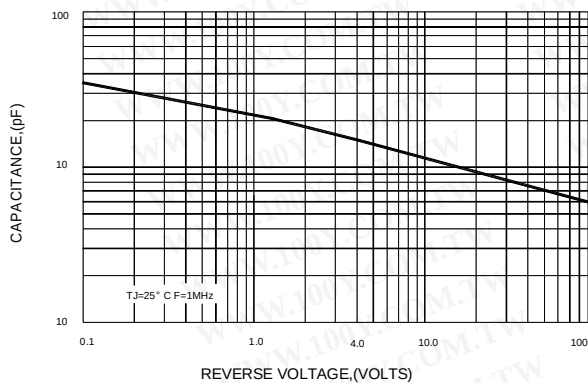


FIG.5-TYPICAL JUNCTION CAPACITANCE



勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)