TE 5391 THRU TE 5399

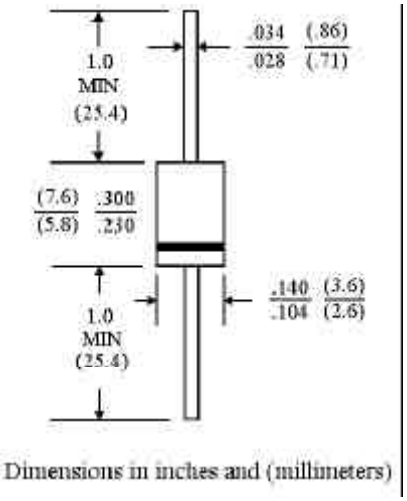
GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER

VOLTAGE - 50 to 1000 Volts CURRENT - 1.5 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammabi ty Classification 94V-O uti zing Flame Retardant Epoxy Molding Compound
- Glass passivated junction in DO-15 package
- 1.5 ampere operation at T_A=55 ¢J with no thermal runaway
- Exceeds environmental standards of MIL-S-19500/228

DO-15



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: Molded plastic, DO-15

Terminals: Axial leads, solderable per MIL-STD-202, Method 208

Polarity: Color Band denotes cathode

Mounting Position: Any

Weight: 0.015 ounce, 0.4 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

	TE 5391	TE 5392	TE 5393	TE 5394	TE 5395	TE 5396	TE 5397	TE 5398	5399	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at T_A=55 ¢J	1.5									A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	50									A
Maximum Forward Voltage at 1.5A	1.4									V
Maximum Reverse Current T_A=25 ¢J Rated DC Blocking Voltage T_A=100 ¢J	5.0 50									£gA £gA
Typical Junction capacitance (Note 1)	25									pF
Typical Thermal Resistance R £KJA(Note 2)	45.0									¢J/W
Operating and Storage Temperature Range T_A	-55 to +150									¢J

NOTES:

1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
2. Thermal resistance from junction to ambient and from junction to lead at 0.375”(9.5mm) lead length P.C.B mounted

RATING AND CHARACTERISTIC CURVES

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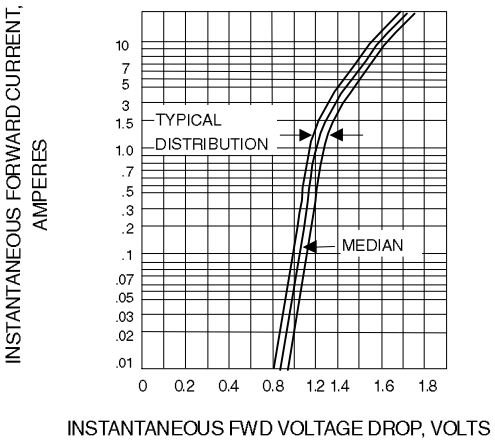

Fig. 1-TYPICAL FORWARD CHARACTERISTICS

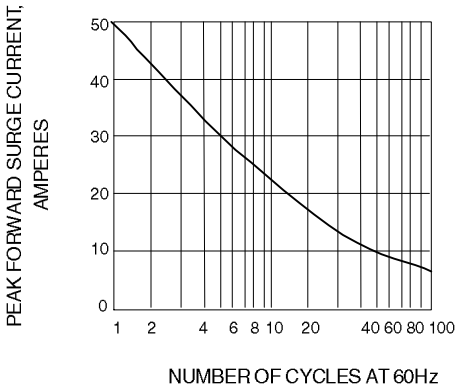

Fig. 2-PEAK FORWARD SURGE CURRENT

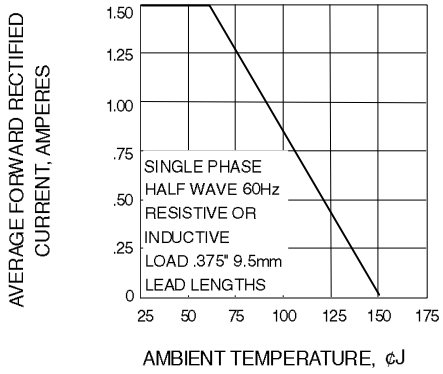

Fig. 3-FORWARD CURRENT DERATING CURVE

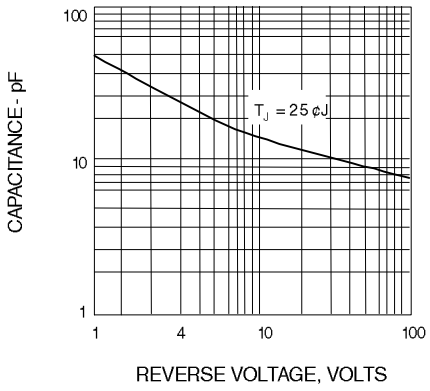

Fig. 4-TYPICAL JUNCTION CAPACITANCE