



TE 5391 THRU TE 5399

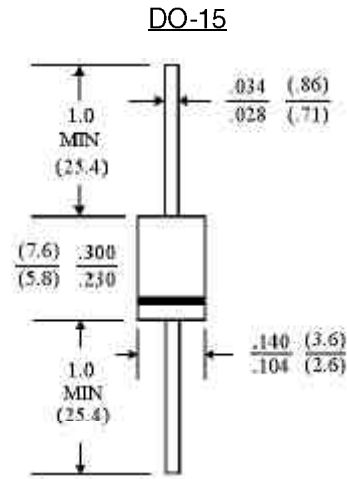
GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER
 VOLTAGE - 50 to 1000 Volts CURRENT - 1.5 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 using Flame Retardant Epoxy Molding Compound
- Glass passivated junction in DO-15 package
- 1.5 ampere operation at $T_A=55^\circ\text{C}$ with no thermal runaway
- Exceeds environmental standards of MIL-S-19500/228

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°C 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 $T_A=55^\circ\text{C}$	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 $T_A=25^\circ\text{C}$	5.0									$\mu\text{g A}$
Rated DC Blocking Voltage $T_A=100^\circ\text{C}$	50									$\mu\text{g A}$
Typical Junction capacitance (Note 1)	25									pF
Typical Thermal Resistance R θ KJA(Note 2)	45.0									$^\circ\text{C/W}$
Operating and Storage Temperature Range T_A	-55 to +150									$^\circ\text{C}$

NOTES:

- Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 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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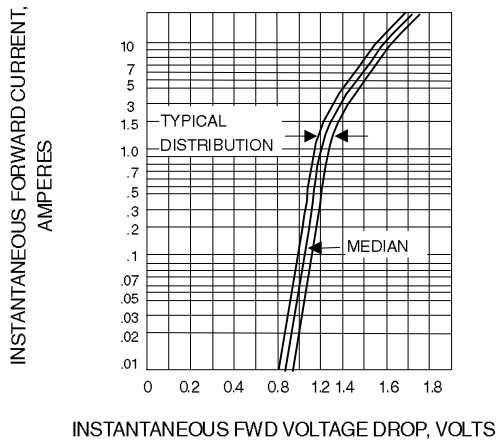


Fig. 1-TYPICAL FORWARD CHARACTERISTICS

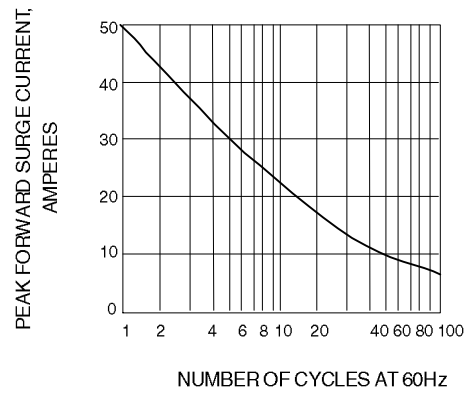


Fig. 2-PEAK FORWARD SURGE CURRENT

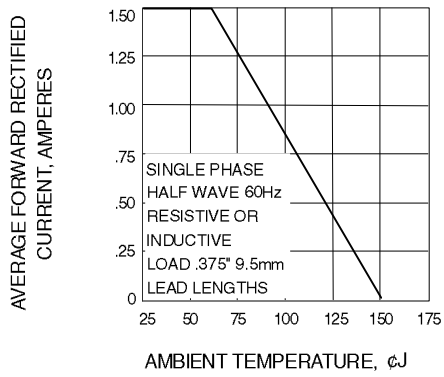


Fig. 3-FORWARD CURRENT DERATING CURVE

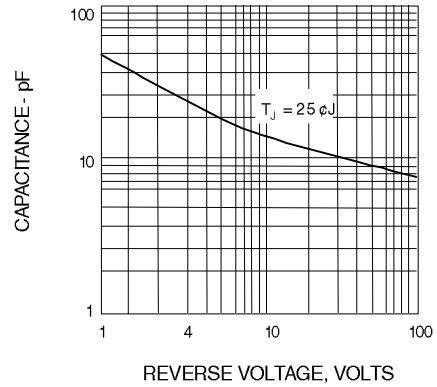


Fig. 4-TYPICAL JUNCTION CAPACITANCE