TE200 THRU TE2010

GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER
VOLTAGE - 50 to 1000 Volts CURRENT - 2.0 Amperes

FEATURES

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

MECHANICAL DATA

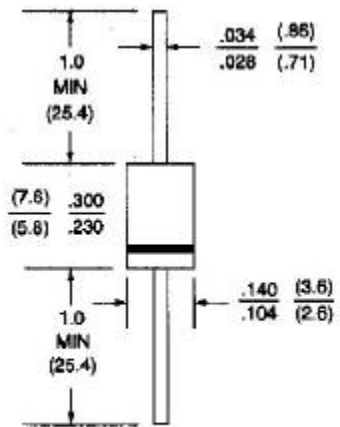Case: Molded plastic , DO-15

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

DO-15

.034 (.86)
.028 (.71)

1.0 MIN (25.4)

(7.6) .300
(5.8) .230

.140 (3.6)
.104 (2.6)

1.0 MIN (25.4)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

	TE200	TE201	TE202	TE204	TE206	TE208	TE2010	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T_A=55	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	70							A
Maximum Forward Voltage at 2.0A	1.1							V
Maximum Reverse Current T_a=25	5.0							A
at Rated DC Blocking Voltage T_a=100	50							A
Typical Junction capacitance (Note 1)	25							$_pF$
Typical Thermal Resistance (Note 2) R JA	25							/W
Operating and Storage Temperature Range T_A	-55 TO +150							

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
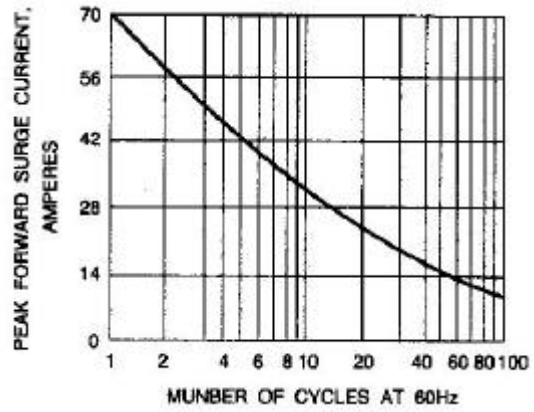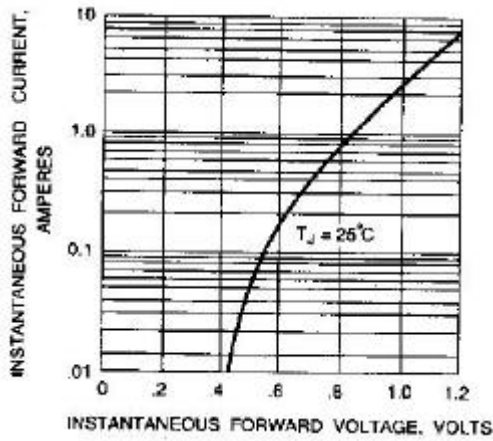
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Fig. 1-TYPICAL FORWARD CHARACTERISTICS
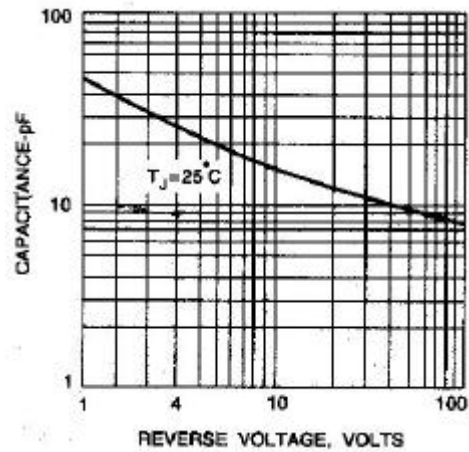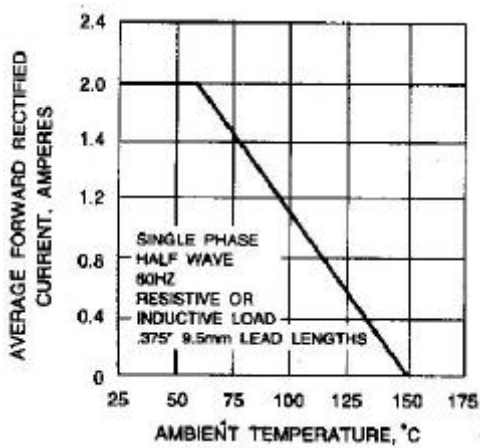

Fig. 2-PEAK FORWARD SURGE CURRENT

Fig. 3-FORWARD CURRENT DERATING CURVE

Fig. 4-TYPICAL JUNCTION CAPACITANCE