

TE 4933 THRU TE 4937

GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER

VOLTAGE - 50 to 600 Volts CURRENT - 1.0 Ampere

FEATURES

High surge current capabi ty

Plastic package has Underwriters Laboratory

Flammab ity Classification 94V-O Ut izing

Flame Retardant Epoxy Molding Compound

1.0 ampere operation at T_A=55 ¢J with no thermal runaway

Fast switching for high efficiency

Exceeds environmental standards of MIL-S-19500/228

Glass passivated junction in DO-41 package

MECHANICAL DATA

Case: Molded plastic, DO-41

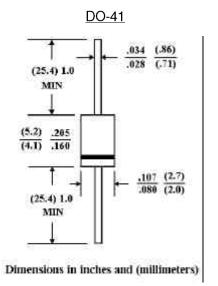
Terminals: Axial leads, solderable per MIL-STD-202,

Method 208

Polarity: Band denotes cathode

Mounting Position: Any

Weight: 0.012 ounce, 0.3 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

TE4933	TE4934	TE 4935	TE4936	4937	UNITS
50	100	200	400	600	٧
35	70	140	280	420	٧
50	100	200	400	600	٧
1.0				Α	
9 30				Α	
1.2				V	
5.0				£gA	
150				£gA	
12				₽F	
67				¢J/W	
200				ns	
-55 to +150				¢J	
	50 35 50	50 100 35 70 50 100	50 100 200 35 70 140 50 100 200 1.0 30 1.2 5.0 150 12 67 200	50 100 200 400 35 70 140 280 50 100 200 400 1.0 30 1.2 5.0 150 12 67 200	50 100 200 400 600 35 70 140 280 420 50 100 200 400 600 1.0 30 1.2 5.0 150 12 67 200 200 400 600

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 2. Reverse Recovery Test Conditions: I_F=.5A, I_R=1A, I =.25A
- 3. Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length P.C.B. mounted

RATING AND CHARACTERISTIC CURVES TE 4933 THRU TE 4937

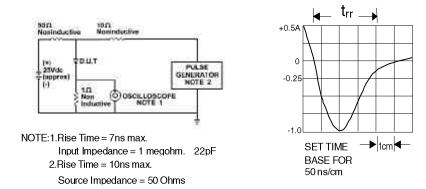


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

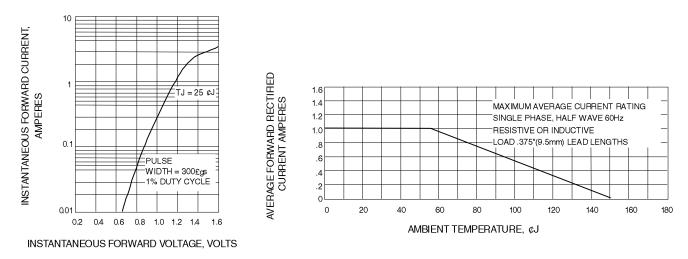


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

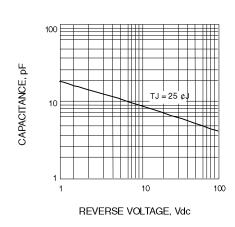


Fig. 4-TYPICAL JUNCTION CAPACITANCE

Fig. 3-FORWARD CURRENT DERATING CURVE

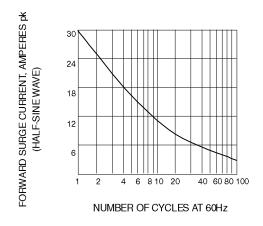


Fig. 5-PEAK FORWARD SURGE CURRENT