

TS750 THRU **TS758**

6.0 AMPS. Silicon Rectifiers



Voltage Range 50 to 800 Volts Current 6.0 Amperes

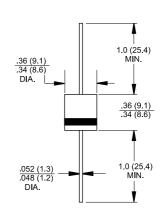
P600

Features

- Plastic material used carries
 Underwriters Laboratory Classification
 94V-0
- High forward current capability
- ♦ Diffused junction
- High surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375"(9.5mm) lead length, 5lbs.(2.3kg) tension

Mechanical Data

- ♦ Cases: Molded plastic body
- Lead: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any
- ♦ Weight: 0.07 ounce, 2.1 grams



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating 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%

Type Number	TS750	TS751	TS752	TS754	TS756	TS758	Units	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	V	
Maximum RMS Voltage	35	70	140	280	420	560	V	
Maximum DC Blocking Voltage	50	100	200	400	600	800	V	
Maximum Non-repetitive Peak Reverse Voltage	60	120	240	480	720	1200	V	
Maximum Average Forward Rectified Current at $T_A=60^{\circ}\text{C}$, P.C.B. Mounting (Fig. 1) $T_L=60^{\circ}\text{C}$, 0.125"(3.18mm) Lead Length (Fig. 2)	6.0 22.0						А	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	400						Α	
Maximum Instantaneous Forward Voltage @ 6.0A 100A	1.0							
				1.25		1.30	V	
Maximum DC Reverse Current @ T _A =25°C	5.0						uA	
at Rated DC Blocking Voltage @ T _A =100°C	1.0						mA	
Typical Junction Capacitance (Note 1)	150						pF	
Typical Thermal Resistance (Note 3) RθJA RθJL	20.0 4.0						°C/W	
Operating Junction Temperature Range T _J	-50 to +150						°C	
Storage Temperature Range T _{STG}	-50 to +150						°C	

- Notes: 1. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0 Volts
 - 2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, Irr=0.25A
 - 3. Thermal Resistance from Junction to Ambient and from Junction to Lead at .375" (9.5mm) LeadLength P.C.B. Mounted with 1.1 x 1.1" (30 x 30 mm) Copper Pads



