

6A Silicon Rectifiers

Voltage range 50-800 Volts

FEATURES

MECHANICAL DATA

Cases: Molded plastic body

Lead: Plated axial leads, matte-tin plating

Polarity: Color band denotes cathode end

Mounting position: Any

Weight: 0.07 ounce, 2.1 grams

.36 (9.1) .34 (8.6) DIA.

.052 (1.3) .048 (1.2) DIA.

1.0 (25.4) MIN.

.36 (9.1) .34 (8.6)

P600

Dimensions in inches and (millimeters)

📵 Pb-free lead finish (second-level interconnect).

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%

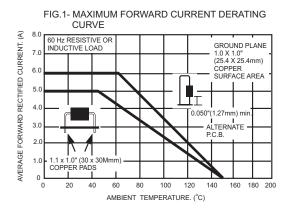
Parameter	Symbol	TS750	TS751	TS752	TS754	TS756	TS758	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	V
Maximum Non-repetitive Peak Reverse Voltage	V_{BR}	60	120	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)	I _(AV)	6.0 22.0						Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	400						Α
Maximum Instantaneous Forward Voltage @ 6.0A	V_{F}	0.95						V
@ 100A		1.25 1.30					V	
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =100°C	I _R	5.0 1000						uA uA
Typical Junction Capacitance (Note 1)	Cj	150						pF
Typical Thermal Resistance (Note 2)	$R heta_{JA} \ R heta_{JL}$	20.0 4.0						°C/W
Operating Junction Temperature Range	TJ	-50 to +150						°C
Storage Temperature Range	T _{STG}	-50 to +150						Ŝ

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

2. Mount on copper pad, size 16mm x 16mm on P.C.B.



RATINGS AND CHARACTERISTIC CURVES



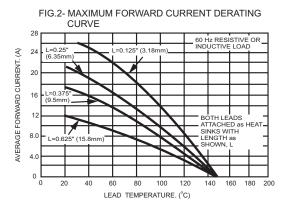
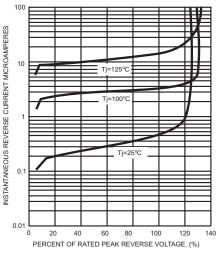
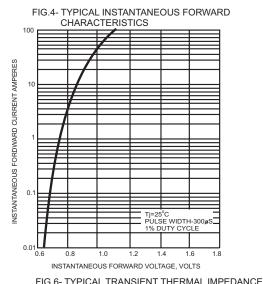


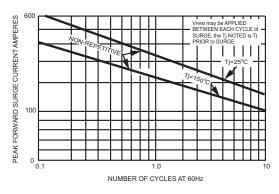


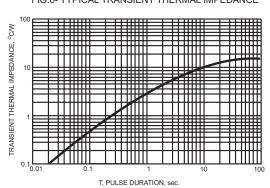
FIG.3- TYPICAL REVERSE CHARACTERISTICS











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