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# PolySwitch® PTC Devices

**Overcurrent Protection Device** 

PRODUCT: TSM600-250F

DOCUMENT: SCD 26006 PCN: A88766-000 REV LETTER: D REV DATE: MAY 8, 2007

Raychem Circuit Protection Products PAGE NO.: 1 OF 1

# **Specification Status: RELEASED**

## Max Electrical Rating at 20°C

Operating Voltage: 250V<sub>DC</sub> Interrupt Current: 3A<sub>RMS</sub>

Fault Voltage: 600V<sub>RMS</sub>

Lead Material: Tin plated brass

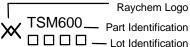
Configuration: Two PPTC devices per

TSM600 part

Case Material: Nylon Resin (UL94 V-0)

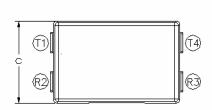
1000V dielectric rating

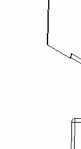


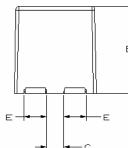


Terminal Description:

T1 = Tip In T4 = Tip Out R2 = Ring In R3 = Ring Out







#### **TABLE I. DIMENSIONS:**

	Α		В		С		D		E		F		G	
	MIN	MAX												
mm:	17.0	17.6	11.2	11.7	10.4	11.2	4.8	5.2	2.5	2.8	0.6	1.0	2.2	3.1
in:	(0.671)	(0.691)	(0.440)	(0.460)	(0.410)	(0.440)	(0.187)	(0.203)	(0.099)	(0.111)	(0.022)	(0.038)	(0.087)	(0.122)

#### TABLE II. PERFORMANCE RATINGS @ 20°C (unless otherwise noted):

IHOL	D (A)	RI	@	O TRIP 3 A onds)	OPERATING TEMPERATURE (°C)		Tripped state Power Dissipation		
20°C	60°C	R MIN	R TYP	R <sub>1 MAX</sub> *	TYP	MAX	MIN	MAX	@ 250V (Watts) TYPICAL
0.250	0.140	1.0	3.5	7.0	0.8	6	-40	85	2

<sup>\*</sup> Maximum device resistance, measured 1-hour post reflow or post trip.

Additional Ratings @ 20°C

Resistance Matched: 0.5 Ohm measured 24 hours after Storage Temperature: -40° to 85° C

reflow installation

Line Balance: 0.5 Ohm, 59 dB @ 4 kHz minimum\*\*\* Storage Humidity: Per IPC/JEDEC J-STD-020A

Level 2a

\*\*\*Tested in accordance with IEEE 455 with a device having a series longitudinal balance value of at least 60dB

Agency Recognitions: UL, CSA Reference Documents: PS300

Precedence: This specification takes precedence over documents referenced herein.

Effectivity: Reference documents shall be the issue in effect on the date of invitation for bid.

### **MATERIALS INFORMATION**

**ROHS Compliant** 

**ELV Compliant** 

**Pb-Free** 

Directive 2002/95/EC Compliant

Directive 2000/53/EC Compliant



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<sup>\*\*</sup> Resistance per PPTC device.