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PolySwitch® PTC Devices

Overcurrent Protection Device

Raychem Circuit Protection Products

PRODUCT: TSM600-250-RA

DOCUMENT: SCD 24939

PCN: 644560-000

REV LETTER: **OBSOLETE** (E) REV DATE: FEBRUARY 4, 2009

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Specification Status: RELEASED

Max Electrical Rating at 20°C

Operating Voltage: 250V_{DC} Interrupt Current: 3A_{RMS}

Fault Voltage: 600V_{RMS}

Lead Material: Tin plated brass

Configuration: Two PPTC devices per

TSM600 part

Case Material: Nylon Resin (UL94 V-0)

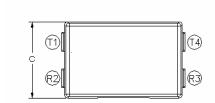
1000V dielectric rating

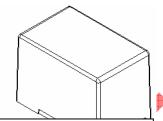
Marking:



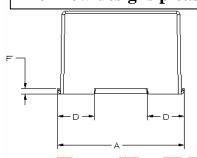
Terminal Description:

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





Not to be used for new designs. For new designs please use TSM600-250F-RA



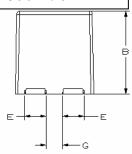


TABLE I. DIMENSIONS:

	Α		В		C		D		Е		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):

IHOLD (A)		RESISTANCE (C	2)**	TIME TO TRIP		OPERATING		Tripped State	
		@ 20° C		@ :	3 A	TEMPERA	TURE (°C)	Power	
			7	(Seco	onds)			Dissipation	
_								@ 250V	
20°C 60°C	R MIN	RTYP	R _{1 MAX} *	TYP	MAX	MIN	MAX	(Watts) TYPICAL	
0.250 0.14	1.0	3.0	5.0	1	6	-40	85	2	

^{*} 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 Recognition: 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.

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^{**} Resistance per PPTC device.