

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TSV250-184F

DOCUMENT : SCD27490 REV LETTER: F

REV DATE: JULY 26, 2016

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Specification Status: Released

Operating Conditions at 20°C:

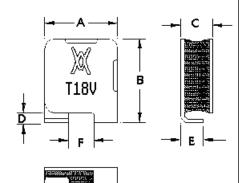
Maximum Continuous Operating Voltage (V_{MCO}): $100V_{DC}$ Maximum Interrupt Current (I_{INT}): $10A_{RMS}$

Fault Ratings at 20°C:

250 V_{RMS}, 3A, 10 applications

Additional Info at 20°C:

- Resistance matched: N/A
- Lightning withstand: 1.5kV per ITU-T K.20, K.21 (3.0K VMAX w/o primary protection)
- Helps equipment meet ITU-T K.20, K.21 Recommendations
- Helps equipment meet Telcordia GR1089 intrabuilding requirements



Terminal Material: Tin-Plated Brass

Marking:

T18V —— Part Identification

TABLE I. DIMENSIONS:

	Α		В		С		D		E		F	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
mm:		6.1	-	6.9		3.2	0.56			1.9	1.6	2.3
in:		(0.240)		(0.270)		(0.126)	(0.022)			(0.075)	(0.065)	(0.091)

^{*}Rounded off approximation

TABLE II. PERFORMANCE RATINGS @ 20°C:

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HOLD	TRIP	RESISTANCE (Ω)			TIME TO TRIP(Sec)		OPERATING		TRIPPED	
CURRENT	CURRENT			@ 3A		TEMPERATURE		POWER DISSIPATION		
(A)	(A)					(°C)		(W) @ 100 V _{DC}		
		R MIN	R MAX	R _{1 MAX} *	TYP	MAX	MIN	MAX	TYP	MAX
0.184	0.69	1.2	3.0	4.0	0.5	1.3	-30	85	0.9	1.3

^{*}Maximum device resistance at 20°C measured 1-hour post trip and 24 hours post reflow

TABLE III. APPLICABLE PART DESCRIPTIONS:

PART DESCRIPTION	PACKAGING TYPE	NOTE
TSV250-184F	Bulk	N/A

Agency Recognitions: UL (File #E74889)
Reference Documents: PS300, ITU-T K.20, K.21

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.

Caution: Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.

Materials Information ROHS Compliant

Directive 2002/95/EC Compliant **ELV Compliant**

Directive 2000/53/EC Compliant

Pb-Free





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