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# PolySwitch® PTC Devices

**Overcurrent Protection Device** 

PRODUCT: TCF250-120T-RA-B-0.5

DOCUMENT: SCD25315 PCN: C06885

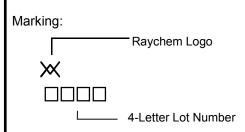
REV LETTER: E

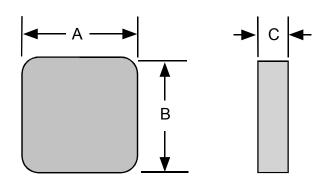
REV DATE: MAY 13, 2011 PAGE NO.: 1 OF 1

# **Specification Status: Released**

## Max Electrical Rating at 20°C

Operating Voltage: 60V<sub>DC</sub> Fault Voltage: 250V<sub>RMS</sub> Interrupt Current: 3A<sub>RMS</sub>





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

	Α		E	3	С		
	MIN	MAX	MIN	MAX	MIN	MAX	
mm:	5.4	5.6	5.4	5.6	2.0	2.3	
in:	(0.213)	(0.221)	(0.213)	(0.221)	(0.079)	(0.091)	

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

IHOLD (A)**		RESISTANCE (Ω)			TIME TO TRIP (s)		OPERATING					
		` '			@ 1A		TEMPERATURE (°C)					
20°C	40°C	R MIN	R MAX	R <sub>1 MAX</sub> *	TYP	MAX	MIN	MAX				
	0.110	6.3	9.3	16.0	0.7	1.2	-40	85				

<sup>\*</sup> Maximum device resistance at 20°C measured 1 hour post trip.

Additional Ratings @ 20°C

Resistance Matched 0.5 Ohm

Lightning Withstand ITU AT 1.5kV

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.

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

### **Materials Information**

**ROHS Compliant** 

ELV Compliant

Directive 2002/95/EC Compliant

Directive 2000/53/EC Compliant Pb-Free

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<sup>\*\*</sup> Dependent on Heat Sinking of Mounting Fixture.