

# PolySwitch®

## PTC Devices

### Overcurrent Protection Device

**PRODUCT: TCF250-145**

DOCUMENT: SCD25919  
PCN: REFER TO TABLE III BELOW  
REV LETTER: G  
REV DATE: MAY 9, 2011  
PAGE NO.: 1 OF 1

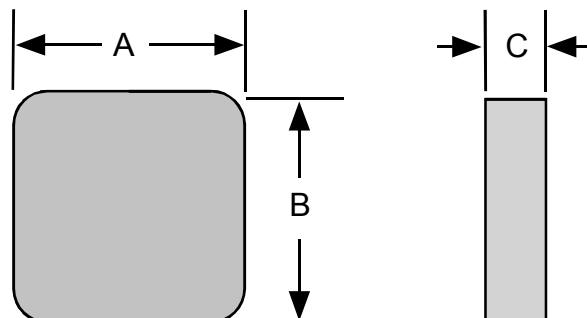
## Specification Status: Released

**Maximum Operating Voltage:** 60V<sub>DC</sub>

**Fault Ratings at 20°C:**  
250V<sub>RMS</sub>, 3A, 10 applications

**Additional Info at 20°C:**

- Resistance matched: N/A
- Lightning withstand:  
- ITU-T K.20/K.21 - 1.5 kV
- Helps equipment meet ITU-T K.20/K.21 recommendations
- Helps equipment meet Telcordia GR1089 intrabuilding requirements



**Marking:**  
None

**TABLE I. DIMENSIONS:**

	A		B		C	
	MIN	MAX	MIN	MAX	MIN	MAX
mm:	5.4	5.6	5.4	5.6	2.0	2.5
in:*	(0.21)	(0.22)	(0.21)	(0.22)	(0.08)	(0.10)

\*Rounded off approximation.

**TABLE II. PERFORMANCE RATINGS @ 20°C:**

HOLD* CURRENT (A)	TRIP CURRENT (A)	RESISTANCE (Ω)			TIME TO TRIP(Sec) @ 1A  TYP*	OPERATING TEMPERATURE (°C)		TRIPPED POWER DISSIPATION (W) TYP @ 60V <sub>DC</sub>
		R MIN	R MAX	R <sub>1</sub> MAX**		MIN	MAX	
0.145	0.290	3.0	6.0	14.0	2.5	-40	85	1.0

\* Dependent on Heat Sinking of Mounting Fixture.

\*\*Maximum device resistance at 20°C measured 1 hour post trip

**TABLE III. APPLICABLE PART DESCRIPTIONS:**

PART DESCRIPTION	PCN # (INTERNAL USE ONLY)	PACKAGING TYPE	NOTES
TCF250-145	F78914-000	Bulk	N/A

Agency Recognitions:  
Reference Documents:  
Precedence:  
Effectivity:  
CAUTION:

UL (File #E74889)  
Raychem PS300, ITU-T K.20/K.21  
This specification takes precedence over documents referenced herein.  
Reference documents shall be the issue in effect on the date of invitation for bid.  
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**

