

**Tyco / Electronics**  
**Raychem Circuit Protection**  
 308 Constitution Drive  
 Menlo Park, CA 94025-1164  
 Phone: 800-227-4856  
 Fax: 800-227-4866

**PolySwitch®**  
**PTC Devices**  
 Overcurrent Protection Device

**PRODUCT: TRF250-080U**

DOCUMENT: SCD 26315  
 PCN: REFER TO TABLE III BELOW  
 REV LETTER: D  
 REV DATE: MARCH 1, 2007  
 PAGE NO.: 1 OF 1

**Specification Status: RELEASED**

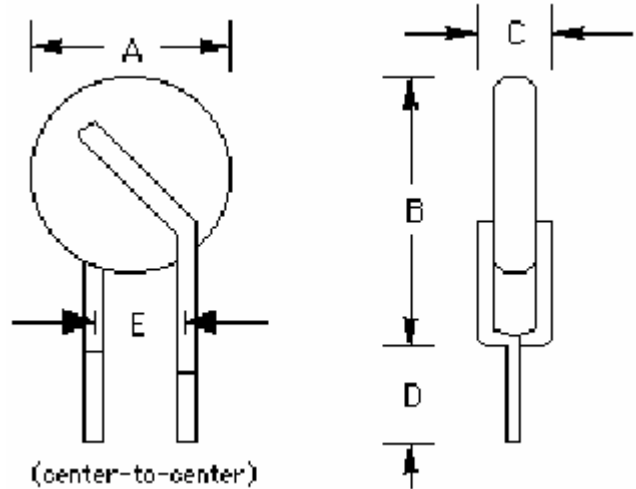
**Maximum Operating Voltage:** 60V<sub>DC</sub>

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

**Additional Info at 20°C:**  
 Resistance matched: N/A  
 Lightning withstand: ITU-T @ 1.0KV  
 Helps equipment meet ITU-T K.20/K.21 specifications

**Lead Material:** 22 AWG Tin-Plated Copper  
 (0.65 mm [0.026"] nominal diameter)

**Marking:**  
 None



**TABLE I. DIMENSIONS**

	A		B		C		D		E
	Min	Max	Min	Max	Min	Max	Min	Max	Nom
mm:	--	4.8	--	9.30	--	3.8	4.7	--	5.0
in*:	--	(0.19)	--	(0.37)	--	(0.15)	(0.19)	--	(0.20)

\*Rounded off approximation

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

HOLD CURRENT (A)	TRIP CURRENT (A)	RESISTANCE (Ω)			TIME TO TRIP(Sec) @ 0.35A		OPERATING TEMPERATURE (°C)		TRIPPED POWER DISSIPATION (W) TYP @ 60V <sub>DC</sub>
		R MIN	R MAX	R <sub>1 MAX</sub> *	TYP	MAX	MIN	MAX	
0.080	0.160	14.0	20.0	33.0	2.5	4.0	-40	85	0.6

\*Maximum device resistance at 20°C measured 1 hour post trip and 24 hours post reflow

**TABLE III. APPLICABLE PART DESCRIPTIONS:**

PART DESCRIPTION	PCN # (INTERNAL USE ONLY)	PACKAGING TYPE	NOTES
TRF250-080U	RF0125-000	Bulk	N/A
TRF250-080U-2	RF0530-000	Tape and Reel	Dim. D not applicable

Agency Recognitions: UL, CSA, TUV  
 UL File #E74889, CSA File #78165C

Reference Documents: Raychem 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**

