

PolySwitch® PTC Devices

Overcurrent Protection Device

Raychem Circuit Protection Products

PRODUCT: TRF250-183S

DOCUMENT: SCD 26744
PCN: REFER TO TABLE III BELOW
REV LETTER: C
REV DATE: MAY 29, 2007
PAGE NO.: 1 OF 1

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:

250V_{RMS}, 3A, 10 applications

Additional Info at 20°C:

- Resistance matched: N/A
- Lightning withstand: 1.5 kV per ITU-T K.20, K.21
- Helps equipment meet ITU-T K.20, K.21

Lead Material:

22 AWG Sn-Plated Copper (0.65 mm [0.026"] nominal diameter)

External Coating Material:

Cured, flame retardant epoxy polymer, meeting UL94 V-0 requirements

Marking:

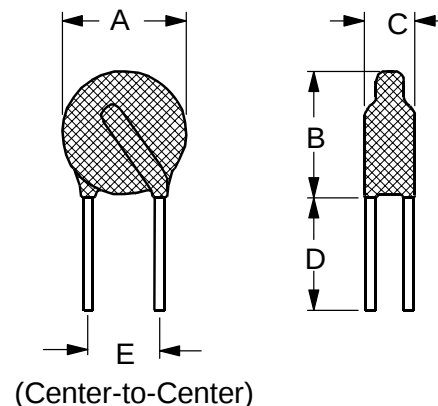
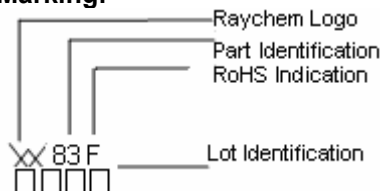


TABLE I. DIMENSIONS:

	A		B		C		D		E
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM
mm:	--	7.5	--	9.5	--	4.1	4.7	--	5.0
in:*	--	(0.29)	--	(0.37)	--	(0.16)	(0.19)	--	(0.20)

*Rounded off approximation

TABLE II. PERFORMANCE RATINGS @ 20°C:

HOLD CURRENT (A)	TRIP CURRENT (A)	RESISTANCE (Ω)			TIME TO TRIP(Sec) @ 3A		OPERATING TEMPERATURE (°C)		TRIPPED POWER DISSIPATION (W) TYP @ 100V _{DC}
		R MIN	R MAX	R ₁ MAX*	TYP	MAX	MIN	MAX	
0.183	0.685	0.8	2.0	3.4	0.55	1.8	-40	85	0.9

*Post Trip Resistance measured after one hour.

TABLE III. APPLICABLE PART DESCRIPTIONS:

PART DESCRIPTION	PCN # (INTERNAL ONLY)	PACKAGING TYPE	NOTES
TRF250-183S	RF0769-000	Bulk	N/A
TRF250-183S-2	RF0841-000	Tape and Reel	Dim "D" not applicable

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

UL (File #E74889), CSA (File #78165C), TUV
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

ELV Compliant

Pb-Free

Directive 2002/95/EC
Compliant

Directive 2000/53/EC
Compliant

