



Tyco Electronics

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PolySwitch® PTC Devices

Overcurrent Protection Device

Raychem Circuit Protection Products

PRODUCT: TRF250-180S

DOCUMENT: SCD 25041
PCN: C76445, D21535
REV LETTER: J
REV DATE: MAY 21, 2008
PAGE NO.: 1 OF 1

Specification Status: RELEASED

Max Electrical Rating at 20°C

Operating Voltage: 100V_{DC}

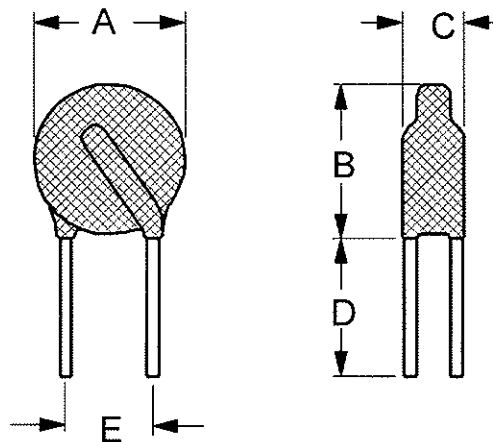
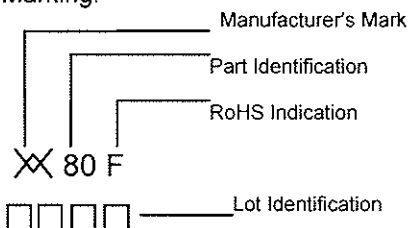
Interrupt Current: 10A_{RMS}

Fault Voltage: 250V_{RMS}

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:



(Center-to-Center)

Device is to be end of life by June 2009. Please use
TRF250-183 series for new programs.

TABLE I. DIMENSIONS

	A		B		C		D		E
	Min	Max	Min	Max	Min	Max	Min	Max	Nom
mm:	--	9.0	--	11.5	--	3.8	4.7	--	5.0
in:	--	(0.354)	--	(0.453)	--	(0.150)	(0.185)	--	(0.197)

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

IHOLD (A)	ITRIP (A)	RESISTANCE (Ω)			TIME TO TRIP (s) @ 3A		OPERATING TEMPERATURE (°C)	
		R MIN	R MAX	R ₁ MAX*	TYP	MAX	MIN	MAX
0.180	0.650	0.8	2.2	4.0	0.5	2.0	-40	85

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

Additional Ratings @ 20°C

Lightning Withstand:

ITU-T @ 1.5kV

Agency Recognitions:

UL, CSA, TUV

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.

ROHS Compliant

Directive 2002/95/EC
Compliant

ELV Compliant

Directive 2000/53/EC
Compliant

Pb-Free

