PRODUCT: TRF250-183US

Littelfuse
Expertise Applied | Answers Delivered

PolySwitch® PTC Devices

Overcurrent Protection Device

DOCUMENT: SCD26746
REV LETTER: E
REV DATE: JULY 26, 2016
PAGE NO.: 1 OF 2

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 Recommendations
Helps equipment meet Telcordia GR1089 intrabuilding requirements

Lead Material:

22 AWG Sn-Plated Copper (0.64 mm [0.025”] nominal diameter)

Marking:

None

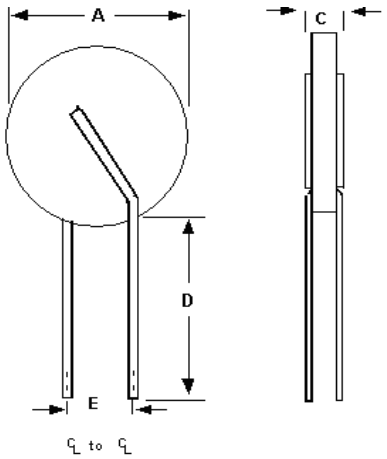

TABLE I. DIMENSIONS:

	A		C		D		E
	MIN	MAX	MIN	MAX	MIN	MAX	NOM
mm:	--	6.5	--	3.0	4.7	--	5.0
in:*	--	(0.26)	--	(0.12)	(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) @ $100V_{DC}$	
		R MIN	R MAX	$R_{1\ MAX}$*	TYP	MAX	MIN	MAX	TYP	MAX
0.183	0.685	0.8	2.0	3.4	0.55	1.8	-40	85	0.9	1.1

*Post Trip Resistance measured after one hour.

TABLE III. APPLICABLE PART DESCRIPTIONS:

PART DESCRIPTION	PACKAGING TYPE	NOTES
TRF250-183US	Bulk	N/A

Agency Recognitions: UL (File #E74889), CSA (File #78165C), TUV
Reference Documents: 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

Littelfuse
Expertise Applied | Answers Delivered

PolySwitch® PTC Devices

Overcurrent Protection Device