

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TRF250-145U

DOCUMENT: SCD26223 REV LETTER: F

REV DATE: JULY 26, 2016

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Specification Status: Released

Operating Conditions at 20°C:

Maximum Continuous Operating Voltage (V_{MCO}): 60V_{DC}

Maximum Interrupt Current (IINT): 3ARMS

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

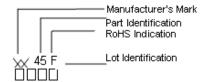
Lead Material:

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

External Coating Material:

None

Marking:



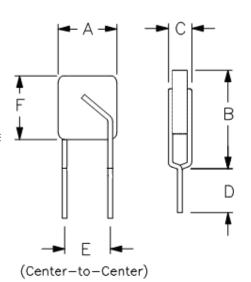


TABLE I. DIMENSIONS:

	Α		В		С		D		Е	F	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM	MIN	MAX
mm:		6.0		10.0		3.8	4.7		5.0		6.0
in:	-	(0.24)	-	(0.39)	-	(0.15)	(0.19)		(0.20)	-	(0.24)

^{*}Rounded off approximation

TABLE II. PERFORMANCE RATINGS @ 20°C:

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	HOLD	TRIP	RESISTANCE (Ω)			TIME TO TRIP(Sec)		OPERATING		TRIPPED	
	CURRENT	CURRENT				@ 1A		TEMPERATURE		POWER	
	(A)	(A)			<u> </u>		(°C)		DISSIPATION		
									(W) @ 60V _{DC}		
			R MIN	R MAX	R _{1 MAX} *	TYP	MAX	MIN	MAX	TYP	MAX
	0.145	0.290	3.5	6.5	14.0	2.0	4.0	-40	85	0.7	0.8

^{*}Post Trip Resistance measured after one hour.

TABLE III. APPLICABLE PART DESCRIPTIONS:

PART DESCRIPTION	PACKAGING TYPE	NOTES
TRF250-145U	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 ELV Compliant Pb-Free

Directive 2002/95/EC Compliant Directive 2000/53/EC Compliant





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