

## **PolySwitch® PTC Devices**

**Overcurrent Protection Device** 

PRODUCT: TRF250-080U

DOCUMENT: SCD26315 **REV LETTER: G** 

REV DATE: JULY 26,2016

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# **Specification Status: Released**

#### Operating Conditions at 20°C:

Maximum Continuous Operating Voltage (V<sub>MCO</sub>): 60V<sub>DC</sub> Maximum Interrupt Current (IINT): 3ARMS

### Fault Ratings at 20°C:

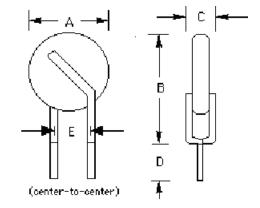
250V<sub>RMS</sub>, 3A, 10 applications

#### Additional Info at 20°C:

- Resistance matched: n/a
- Lightning withstand: 1.0 kV per ITU-T K.20, K.21
- Helps equipment meet ITU-T K.20, K.21 Recommendations



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



#### **External Coating Material:**

None

#### Marking:

None

#### **TABLE I. DIMENSIONS:**

	Α		В		С		D		E	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM	
mm:		4.8		9.3		3.8	4.7		5.0	
in*:		(0.19)		(0.37)		(0.15)	(0.19)		(0.20)	

<sup>\*</sup>Rounded off approximation

#### TABLE IL PERFORMANCE BATINGS @ 20°C.

TABLE II. 1 ETII OTIMANOE TATINGO @ 20 O.										
HOLD TRIP		RESISTANCE (Ω)			TIME TO TRIP(Sec)		OPERATING		TRIPPED	
CURRENT CURRENT					@ 0.35A		TEMPERATURE		POWER	
(A)	(A)						'C)	DISSIPATION		
									(W) @ 60V <sub>DC</sub>	
		R MIN	R MAX	R <sub>1 MAX</sub> *	TYP	MAX	MIN	MAX	TYP	
										MAX
0.080	0.160	14.0	20.0	33.0	2.5	4.0	-40	85	0.6	0.7

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

#### TABLE III. APPLICABLE PART DESCRIPTIONS:

Ī	PART DESCRIPTION	PACKAGING TYPE	NOTES		
	TRF250-080U	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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