

## Specification Status: Released

### Operating Conditions at 20°C:

Maximum Continuous Operating Voltage ( $V_{MCO}$ ): 60V<sub>DC</sub>  
Maximum Interrupt Current ( $I_{INT}$ ): 3A<sub>RMS</sub>

### 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
- Helps equipment meet ITU-T K.20 Recommendations

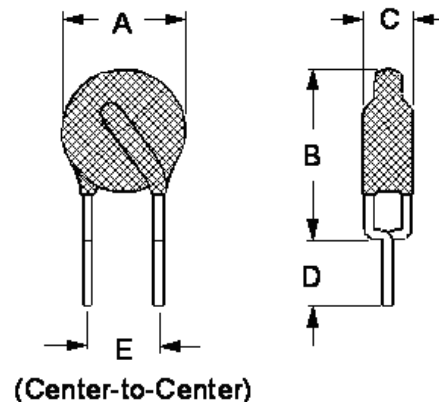
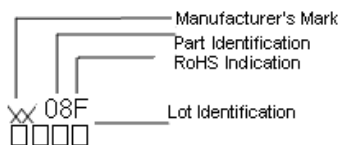
### Lead Material:

22 AWG Sn-Plated Copper (0.64 mm [0.025"] 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:  | --  | 5.8    | --  | 9.9    | --  | 4.6    | 4.7    |     | 5.0    |
| in:* | --  | (0.23) | --  | (0.39) | --  | (0.18) | (0.19) |     | (0.20) |

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS @ 20°C:**

| HOLD<br>CURRENT<br>(A) | TRIP<br>CURRENT<br>(A) | RESISTANCE (Ω) |       |                     | TIME TO TRIP(Sec)<br>@ 0.35A<br><br>MAX | OPERATING<br>TEMPERATURE<br>(°C) |     | TRIPPED<br>POWER<br>DISSIPATION<br>(W) @ 60V <sub>DC</sub> |     |
|------------------------|------------------------|----------------|-------|---------------------|-----------------------------------------|----------------------------------|-----|------------------------------------------------------------|-----|
|                        |                        | R MIN          | R MAX | R <sub>1</sub> MAX* |                                         | MIN                              | MAX | TYP                                                        | MAX |
| 0.080                  | 0.160                  | 15.0           | 22.0  | 33.0                | 4.0                                     | -40                              | 85  | 0.6                                                        | 0.7 |

\*Post Trip Resistance measured after one hour.

**TABLE III. APPLICABLE PART DESCRIPTIONS:**

| PART DESCRIPTION | PACKAGING TYPE | NOTES |
|------------------|----------------|-------|
| TRF250-080T      | 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



**PolySwitch®**  
**PTC Devices**  
Overcurrent Protection Device

**PRODUCT: TRF250-080T**

DOCUMENT: SCD26314  
REV LETTER: I  
REV DATE: JULY 26,2016  
PAGE NO.: 2 OF 2

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