

**Specification Status: Released**

**Maximum Operating Voltage:** 60V<sub>DC</sub>

**Fault Ratings at 20°C:**

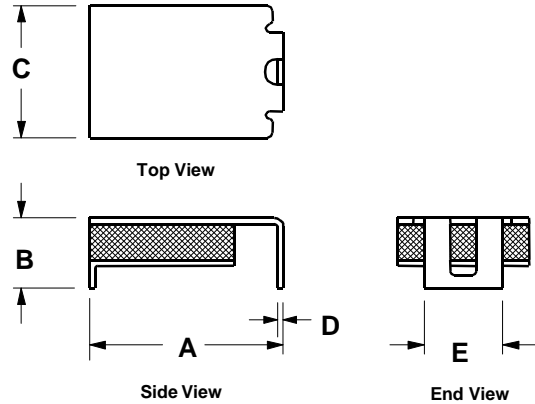
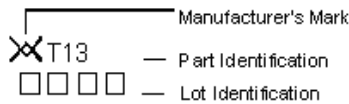
- 250 V<sub>RMS</sub>, 3A, 10 applications
- 600 V<sub>RMS</sub>, 1A, 5 applications

**Additional Info at 20°C:**

- Resistance matched: 0.5 ohm
- Lightning withstand: 1.5kV per ITU-T Recommendations
- Helps equipment meet ITU-T K.20, K.21 Requirements
- Helps equipment meet Telcordia GR1089 intrabuilding requirements

**Terminal Material:** Tin-Plated Brass

**Marking:**



**TABLE I. DIMENSIONS:**

|      | A       |         | B   |         | C   |         | D       | E       |
|------|---------|---------|-----|---------|-----|---------|---------|---------|
|      | MIN     | MAX     | MIN | MAX     | MIN | MAX     | NOM     | NOM     |
| mm:  | 8.5     | 9.4     | --  | 3.4     | --  | 7.4     | 0.3     | 3.8     |
| in.* | (0.335) | (0.370) | --  | (0.135) | --  | (0.290) | (0.011) | (0.150) |

\*Rounded off approximation

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

| HOLD CURRENT (A) | TRIP CURRENT (A) | RESISTANCE (Ω) |       |                     | TIME TO TRIP(Sec) @ 1A |     | OPERATING TEMPERATURE (°C) |     | TRIPPED POWER DISSIPATION (W) TYP @ 60V <sub>DC</sub> |
|------------------|------------------|----------------|-------|---------------------|------------------------|-----|----------------------------|-----|---|
|                  |                  | R MIN          | R MAX | R <sub>1</sub> MAX* | TYP                    | MAX | MIN                        | MAX |   |
| 0.130            | 0.260            | 7.0            | 10.0  | 17.0                | 1.1                    | 2.0 | -40                        | 85  | 1.1   |

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

**TABLE III. APPLICABLE PART DESCRIPTIONS:**

| PART DESCRIPTION      | PACKAGING TYPE | NOTE |
|-----------------------|----------------|------|
| TS250-130F-RC-B-0.5-2 | Tape and Reel  | 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**





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

**PRODUCT: TS250-130F-RC-B-0.5**

DOCUMENT: SCD26242  
REV LETTER: G  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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