

Tyco / Electronics  
 Raychem Circuit Protection  
 308 Constitution Drive  
 Menlo Park, CA 94025-1164  
 Phone: 800-227-4856  
 Fax: 800-227-4866

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

PRODUCT: TS250-130-RB

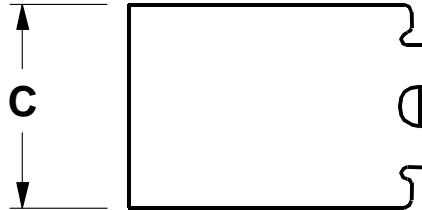
DOCUMENT: SCD 23194  
 PCN: 056190  
 REV LETTER: F  
 REV DATE: APRIL 9, 2002  
 PAGE NO.: 1 OF 1

**Specification Status: RELEASED**

**Max Electrical Rating at 20°C**

Operating Voltage: 60V<sub>DC</sub>  
 Fault Voltage: 250V<sub>RMS</sub> / 600V<sub>RMS</sub>  
 Interrupt Current: 3A<sub>RMS</sub> / 1A<sub>RMS</sub>

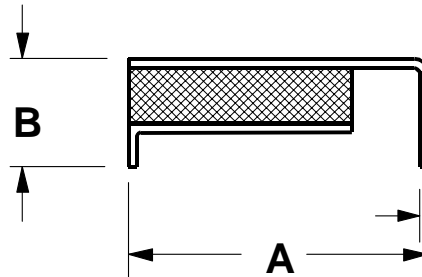
Terminal Material: Tin Plated Brass



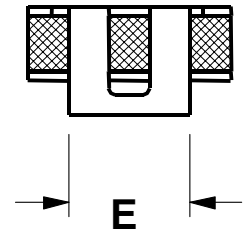
Top View

**Marking:**

- Raychem Logo
- ⊗ T13 — Part Identification
- □ □ □ — Lot Identification



Side View



End View

**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) |

**TABLE II. PERFORMANCE RATINGS @ 20°C (unless otherwise noted):**

| I HOLD (A) | RESISTANCE (Ω) |       |                      | TIME TO TRIP (s)<br>@ 1A |     | OPERATING TEMPERATURE (°C) |     | POWER DISSIPATION (W)<br>TYP |
|------------|----------------|-------|----------------------|--------------------------|-----|----------------------------|-----|------------------------------|
|            | R MIN          | R MAX | R <sub>1 MAX</sub> * | TYP                      | MAX | MIN                        | MAX |                              |
| 20°C       | 9.0            | 12.0  | 20.0                 | 0.7                      | 1.5 | -40                        | 85  | 1.1                          |

\*Maximum device resistance at 20°C measured 1 hour post trip.

Additional Ratings @ 20°C

Lightning Withstand: ITU at 1.5kV

Storage Temperature: -40° to 85°C

Agency Recognition:  
 Reference Documents:  
 Precedence:  
 Effectivity:  
 CAUTION:

UL, CSA, TUV  
 PS300  
 This specification takes precedence over documents referenced herein.  
 Reference documents shall be the issue in effect on the date of invitation for bid.  
 Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.