

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: TSL250-080

DOCUMENT: SCD 24623
 PCN: 113192
 REV LETTER: I
 REV DATE: APRIL 18, 2002
 PAGE NO.: 1 OF 1



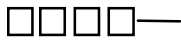
Specification Status: RELEASED

Max Electrical Rating at 20°C

Operating Voltage: **80V_{DC}**
 Fault Voltage: **250V_{RMS}**
 Interrupt Current: **3A_{RMS}**

Terminal Material: Tin plated brass

Marking:

-  Raychem Logo
-  Part Identification
-  Lot Identification

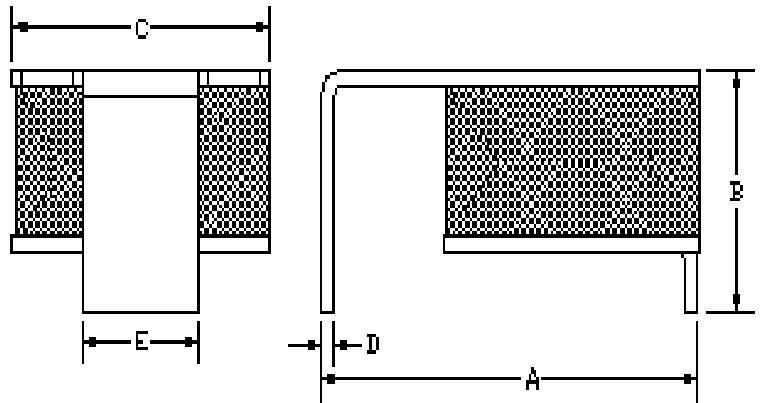


TABLE I. DIMENSIONS:

| | A | | B | | C | | D | | E | |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX |
| mm*: | 6.7 | 7.9 | 2.7 | 3.7 | 4.8 | 5.3 | 0.2 | 0.4 | 2.5 | 3.1 |
| in: | (0.265) | (0.310) | (0.110) | (0.145) | (0.190) | (0.210) | (0.008) | (0.015) | (0.100) | (0.120) |

*Rounded off approximation

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

| I HOLD (A) | | RESISTANCE (Ohms) | | | TIME TO TRIP (s) @ 1A | OPERATING Temperature (°C) | | Tripped State Power Dissipation (W) |
|------------|-------|-------------------|-------|---------------------|-----------------------|----------------------------|-----|-------------------------------------|
| 20°C | 70°C | R MIN | R MAX | R ₁ MAX* | Seconds, Typical | MIN | MAX | Typical |
| 0.080 | 0.044 | 5.0 | 11.0 | 20.0 | 0.8 | -40 | 85 | 1.2 |

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

Additional Rating @ 20°C

Lightning Withstand: Per Telcordia GR1089 Intrabuilding 2 hits 2/10µsec, 1500V, 100A Storage Temperature: -40°C to 85°C

Agency Recognition: UL, CSA, TUV
 Reference Documents: PS300
 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.