

308 Constitution Drive Menlo Park, CA 94025-1164 Phone: 800-227-4856 www.circuitprotection.com

## **PolySwitch® PTC Devices**

**Overcurrent Protection Device** 

Raychem Circuit Protection Products

PRODUCT: TCF250-120T-B-0.5

DOCUMENT: SCD 25314

PCN: A06958 REV LETTER: D

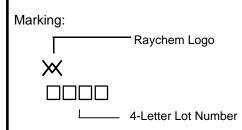
**REV DATE: MAY 14, 2007** 

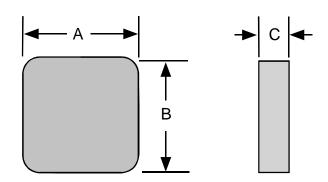
PAGE NO.: 1 OF 1

# **Specification Status: Released**

### Max Electrical Rating at 20°C

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





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

|     | Α       |         | Е       | 3       | С       |         |  |
|-----|---------|---------|---------|---------|---------|---------|--|
|     | MIN     | MAX     | MIN     | MAX     | MIN     | MAX     |  |
| mm: | 5.4     | 5.6     | 5.4     | 5.6     | 2.0     | 2.3     |  |
| in: | (0.213) | (0.221) | (0.213) | (0.221) | (0.079) | (0.091) |  |

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

| IHOLD (A)** |       | RESISTANCE (Ω) |       |                      | TIME TO TRIP (s) |     | OPERATING        |     |
|-------------|-------|----------------|-------|----------------------|------------------|-----|------------------|-----|
|             |       |                |       |                      | @ 1A             |     | TEMPERATURE (°C) |     |
| 20°C        | 40°C  | R MIN          | R MAX | R <sub>1 MAX</sub> * | TYP              | MAX | MIN              | MAX |
|             | 0.110 | 6.3            | 12.0  | 18.0                 | 0.6              | 1.2 | -40              | 85  |

<sup>\*</sup> Maximum device resistance at 20°C measured 1 hour post trip.

Additional Ratings @ 20°C

Resistance Matched 0.5 Ohm

Lightning Withstand ITU AT 1.5kV

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.

#### Materials Information

**ROHS Compliant** 

**ELV Compliant** 

Pb-Free

Directive 2002/95/EC Compliant

Directive 2000/53/EC Compliant



© 2005, 2007 Tyco Electronics Corporation. All rights reserved.

<sup>\*\*</sup> Dependent on Heat Sinking of Mounting Fixture.