

## Specification Status: Released

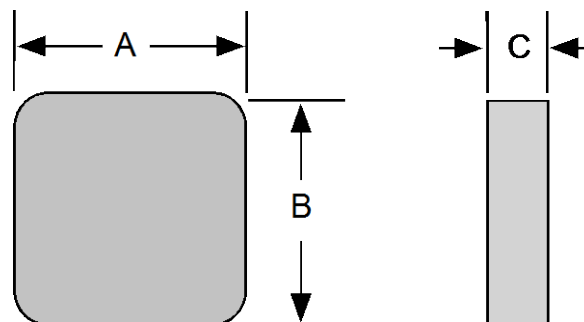
**Maximum Operating Voltage:** 60V<sub>DC</sub>

**Fault Ratings at 20°C:**

250V<sub>RMS</sub>, 3A, 10 applications

**Additional Info at 20°C:**

- Resistance matched: 0.5 ohms
- Lightning withstand:  
- ITU-T K.20/K.21 - 1.5 kV
- Helps equipment meet ITU-T K.20/K.21 recommendations
- Helps equipment meet Telcordia GR1089 intrabuilding requirements



**Marking:**



**TABLE I. DIMENSIONS:**

|      | A      |        | B      |        | C      |        |
|------|--------|--------|--------|--------|--------|--------|
|      | MIN    | MAX    | MIN    | MAX    | MIN    | MAX    |
| mm:  | 5.4    | 5.6    | 5.4    | 5.6    | 2.0    | 2.5    |
| in.* | (0.21) | (0.22) | (0.21) | (0.22) | (0.08) | (0.10) |

\*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>@ 1A |     | OPERATING<br>TEMPERATURE (°C) |     | TRIPPED<br>POWER DISSIPATION<br>(W)<br>TYP @ 60V <sub>DC</sub> |
|-------------------------|------------------------|----------------|-------|----------------------|---------------------------|-----|-------------------------------|-----|----------------------------------------------------------------|
|                         |                        | R MIN          | R MAX | R <sub>1</sub> MAX** | TYP*                      | MAX | MIN                           | MAX |                                                                |
| 0.145                   | 0.290                  | 5.0            | 9.0   | 14.0                 | 1.0                       | 2.0 | -40                           | 85  | 1.0                                                            |

\* Dependent on Heat Sinking of Mounting Fixture

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

**TABLE III. APPLICABLE PART DESCRIPTIONS:**

| PART DESCRIPTION  | PCN # (INTERNAL USE ONLY) | PACKAGING TYPE | NOTES |
|-------------------|---------------------------|----------------|-------|
| TCF250-145T-B-0.5 | RF0065-000                | Bulk           | N/A   |

Agency Recognitions:  
Reference Documents:  
Precedence:  
Effectivity:  
CAUTION:

UL (File #E74889)  
PS300, ITU-T K.20/K.21  
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.

## 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: TCF250-145T-B-0.5**

DOCUMENT: SCD26261  
REV LETTER: F  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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