

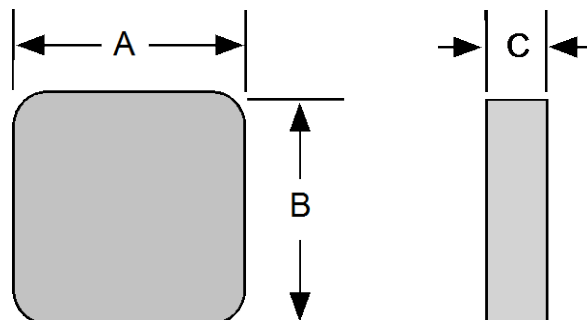
## Specification Status: Released

**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: N/A
- 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:**  
None

**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<br><br>TYP* | OPERATING<br>TEMPERATURE (°C) |     | TRIPPED<br>POWER DISSIPATION<br>(W)<br><br>TYP @ 60V <sub>DC</sub> |
|-------------------------|------------------------|----------------|-------|----------------------|---------------------------------------|-------------------------------|-----|--------------------------------------------------------------------|
|                         |                        | R MIN          | R MAX | R <sub>1</sub> MAX** |                                       | MIN                           | MAX |                                                                    |
| 0.145                   | 0.290                  | 3.0            | 6.0   | 14.0                 | 2.5                                   | -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 |
|------------------|---------------------------|----------------|-------|
| TCF250-145       | F78914-000                | Bulk           | N/A   |

Agency Recognitions: UL (File #E74889)  
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: TCF250-145**

DOCUMENT: SCD25919  
REV LETTER: G  
REV DATE: JULY 26, 2016  
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