

## Specification Status: Released

**Operating Conditions at 20°C:**

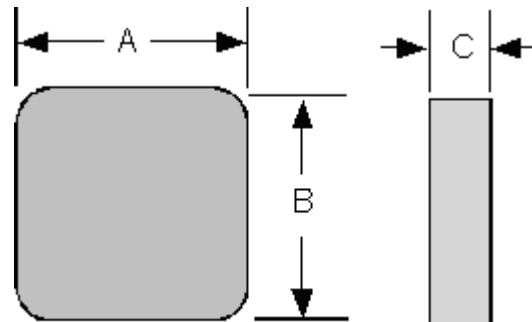
 Maximum Continuous Operating Voltage ( $V_{MCO}$ ): 60V<sub>DC</sub>

 Maximum Interrupt Current ( $I_{INT}$ ): 3A<sub>RMS</sub>
**Fault Ratings at 20°C:**

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

**Additional Info at 20°C:**

- Resistance matched: 0.5 Ohm
- Lightning withstand:
  - ITU-T K.20, K21 - 1.0 kV
- Helps equipment meet ITU-T K.20 Recommendations
- Helps equipment meet Telcordia GR1089 intrabuilding requirements


**Marking:**

**TABLE I. DIMENSIONS:**

|      | A       |         | B       |         | C       |         |
|------|---------|---------|---------|---------|---------|---------|
|      | MIN     | MAX     | MIN     | MAX     | MIN     | MAX     |
| mm:  | 4.6     | 4.9     | 4.6     | 4.9     | 2.0     | 2.3     |
| in:* | (0.184) | (0.192) | (0.184) | (0.192) | (0.079) | (0.091) |

\*Rounded off approximation.

**TABLE II. PERFORMANCE RATINGS @ 20°C, unless otherwise noted (as measured in test board # T2978):**

| HOLD<br>CURRENT*<br>(A) @ 40°C | TRIP<br>CURRENT*<br>(A) @ 40°C | RESISTANCE (Ω) |       |                      | TIME TO TRIP(Sec)<br>@ 1A |     | OPERATING<br>TEMPERATURE<br>(°C) |     | TRIPPED<br>POWER DISSIPATION<br>(W) @ 60V <sub>DC</sub> * |     |
|--------------------------------|--------------------------------|----------------|-------|----------------------|---------------------------|-----|----------------------------------|-----|-----------------------------------------------------------|-----|
|                                |                                | R MIN          | R MAX | R <sub>1MAX</sub> ** | TYP                       | MAX | MIN                              | MAX | TYP                                                       | MAX |
| 0.090                          | 0.150                          | 14.0           | 18.0  | 24.0                 | 0.2                       | 0.4 | -40                              | 85  | 0.7                                                       | 0.8 |

\* Dependent on Heat Sinking of Mounting Fixture.

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

**TABLE III. APPLICABLE PART DESCRIPTIONS:**

| PART DESCRIPTION  | PACKAGING TYPE | NOTES |
|-------------------|----------------|-------|
| TCF250-100T-B-0.5 | Bulk           | N/A   |

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

 N/A  
 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**


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