

**Specification Status: Released**

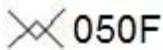
**Maximum Electrical Rating**

**Voltage: 60V<sub>DC</sub>**  
**Short Circuit Current: 10A**

**Notes:**

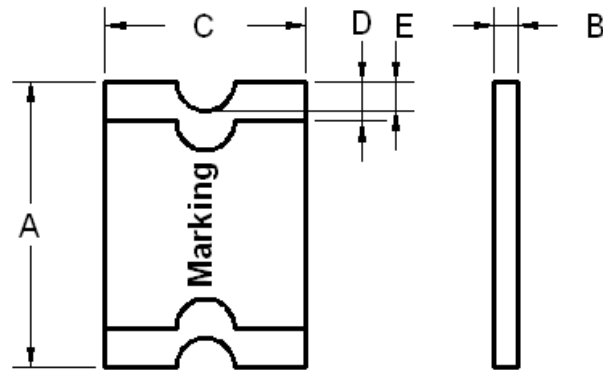
1. All terminations are tin plated.
2. Drawing not to scale

**Marking:**



— PART IDENTIFICATION

— MANUFACTURER'S MARK



**TABLE I. DIMENSIONS:**

|     | A       |         | B       |         | C       |         | D       |         | E       |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|     | MIN     | MAX     | MIN     | MAX     | MIN     | MAX     | MIN     | MAX     | MIN     |
| mm: | 7.30    | 7.70    | 0.63    | 0.90    | 4.90    | 5.30    | 0.25    | 0.95    | 0.20    |
| in: | (0.287) | (0.303) | (0.025) | (0.035) | (0.193) | (0.209) | (0.010) | (0.037) | (0.008) |

**TABLE II. PERFORMANCE RATINGS:**

| CURRENT RATINGS** |      |                 |      |                 |      | TIME TO TRIP**            | RESISTANCE VALUES |      | TRIPPED-STATE POWER DISSIPATION** |
|-------------------|------|-----------------|------|-----------------|------|---------------------------|-------------------|------|-----------------------------------|
| AMPERES AT 0°C    |      | AMPERES AT 25°C |      | AMPERES AT 60°C |      | SECONDS AT 25°C, 2.5A MAX | OHMS AT 25°C      |      | WATTS AT 25°C, 60V MAX            |
| HOLD              | TRIP | HOLD            | TRIP | HOLD            | TRIP |                           | MIN               | MAX* |                                   |
| 0.65              | 1.30 | 0.50            | 1.00 | 0.32            | 0.64 | 4.0                       | 0.15              | 1.20 | 1.5                               |

\* Maximum resistance is measured 1 hour after reflow.

\*\* Values Specified were determined using PCB's with 0.070"X1.5 ounce copper traces.

Reference Document: 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**

Directive 2002/95/EC  
Compliant

**ELV Compliant**

Directive 2000/53/EC  
Compliant

**Pb-Free**



**Halogen Free\***



\* Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm.

**PolySwitch®**  
**PTC Devices**  
Overcurrent Protection Device

**PRODUCT: SMDC050F**

DOCUMENT: SCD28983  
REV LETTER: A  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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