

**Specification Status: Released**

**Maximum Electrical Rating**

**Voltage: 13.2V<sub>DC</sub>**  
**Short Circuit Current: 40A**

**Notes:**

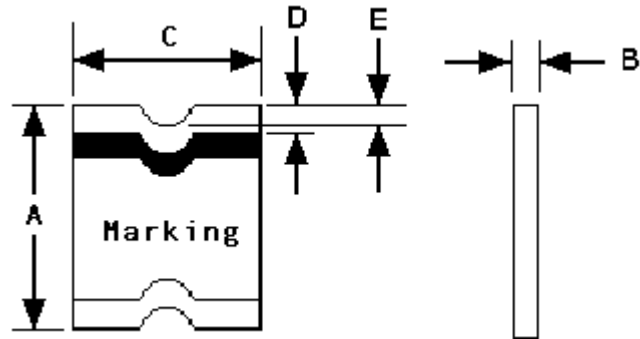
1. All terminations are tin plated.
2. Drawing not to scale

**Marking:**



PART IDENTIFICATION

MANUFACTURER'S MARK



**TABLE I. DIMENSIONS:**

|     | A       |         | B       |         | C       |         | D       |         | E       |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|     | MIN     | MAX     | MIN     | MAX     | MIN     | MAX     | MIN     | MAX     | MIN     |
| mm: | 3.00    | 3.43    | 0.38    | 0.62    | 2.35    | 2.80    | 0.25    | 0.75    | 0.076   |
| in: | (0.118) | (0.135) | (0.015) | (0.025) | (0.092) | (0.110) | (0.010) | (0.030) | (0.003) |

**TABLE II. PERFORMANCE RATINGS:**

| CURRENT RATINGS** |      |                 |      |                 |      | TIME TO TRIP**          | RESISTANCE VALUES |      | TRIPPED-STATE POWER DISSIPATION** |
|-------------------|------|-----------------|------|-----------------|------|-------------------------|-------------------|------|-----------------------------------|
| AMPERES AT 0°C    |      | AMPERES AT 20°C |      | AMPERES AT 60°C |      | SECONDS AT 20°C, 8A MAX | OHMS AT 20°C      |      | WATTS AT 20°C, 13.2V MAX          |
| HOLD              | TRIP | HOLD            | TRIP | HOLD            | TRIP |                         | MIN               | MAX* |                                   |
| 0.58              | 1.16 | 0.50            | 1.00 | 0.35            | 0.70 | 0.05                    | 0.25              | 0.90 | 0.8                               |

\*Maximum resistance is measured 1 hour after reflow.

\*\* Values specified were determined using PCB's with 0.030"X1.5 ounce copper traces.

Agency Recognition: UL, CSA, TÜV

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**

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: microSMD050F**

DOCUMENT: SCD25266  
REV LETTER: H  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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