

## Specification Status: Released

### Maximum Electrical Rating

Voltage: 30V<sub>DC</sub>

Short Circuit Current: 10A

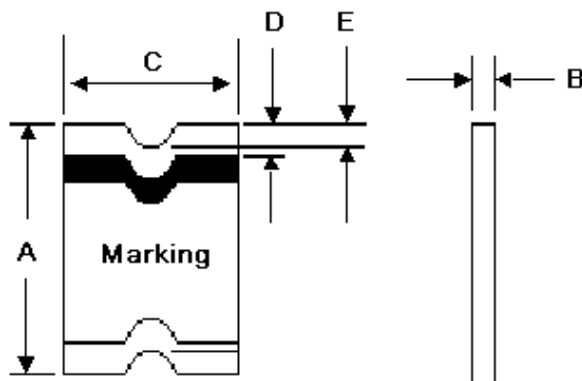
#### Notes:

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

#### Marking:

2 X 2

PART IDENTIFICATION  
 MANUFACTURER'S MARK



**TABLE I. DIMENSIONS:**

|     | A       |         | B       |         | C       |         | D       |         | E       |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|     | MIN     | MAX     | MIN     | MAX     | MIN     | MAX     | MIN     | MAX     | MIN     |
| mm: | 4.37    | 4.73    | 0.635   | 0.89    | 3.07    | 3.41    | 0.25    | 0.95    | 0.20    |
| in: | (0.172) | (0.186) | (0.025) | (0.035) | (0.121) | (0.134) | (0.010) | (0.040) | (0.008) |

**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, 30V MAX            |
| HOLD               | TRIP | HOLD            | TRIP | HOLD            | TRIP |                         | MIN               | MAX*                              |
| 0.23               | 0.46 | 0.20            | 0.40 | 0.13            | 0.26 | 0.02                    | 0.60              | 3.30                              |
|                    |      |                 |      |                 |      |                         |                   | 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 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: miniSMDC020F**

DOCUMENT: SCD25272  
REV LETTER: I  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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