

### PolySwitch® PTC Devices

**Overcurrent Protection Device** 

### PRODUCT: miniSMDC030F

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## **Specification Status: Released**

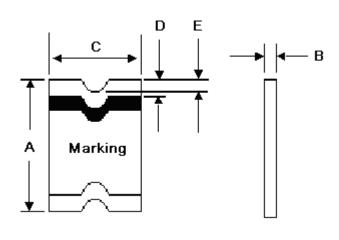
#### Maximum Electrical Rating Voltage: 30V<sub>DC</sub> Short Circuit Current: 40A

#### Notes:

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

Marking:





#### TABLE I. DIMENSIONS:

|     | Α       |         | В       |         | С       |         | D       |         | Е       |  |  |  |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|
|     | MIN     | MAX     | MIN     | MAX     | MIN     | MAX     | MIN     | MAX     | MIN     |  |  |  |
| mm: | 4.37    | 4.73    | 0.635   | 0.890   | 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<br>TRIP** | RESISTANCE<br>VALUES |          | TRIPPED-STATE<br>POWER<br>DISSIPATION** |
|-------------------|------|--------------|------|---------|---------|-------------------|----------------------|----------|---|
| AMPERES           |      | AMPERES AMPE |      | RES     | SECONDS | OHMS              |                      | WATTS AT |   |
| AT 0°C            |      | AT 25°C      |      | AT 60°C |         | AT 25°C, 8A       | AT 25°C              |          | 25°C, 30V                               |
| HOLD              | TRIP | HOLD         | TRIP | HOLD    | TRIP    | MAX               | MIN                  | MAX*     | MAX                                     |
| 0.39              | 0.72 | 0.30         | 0.60 | 0.22    | 0.40    | 0.1               | 0.20                 | 1.75     | 0.8                                     |

\* Maximum resistance is measured 1 hour after reflow

UL, CSA, TÜV

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

Agency Recognition: Reference Document: Precedence: Effectivity: CAUTION:

PS300 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







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