

**Specification Status: Released**

**Maximum Electrical Rating**

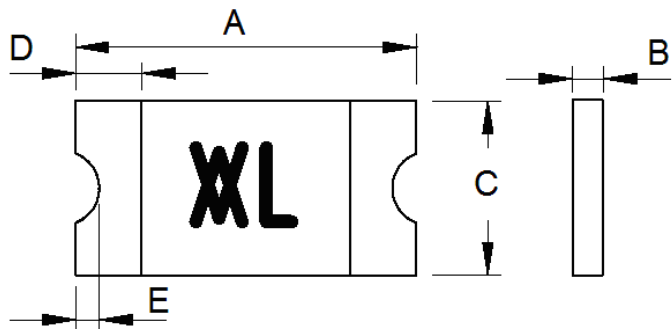
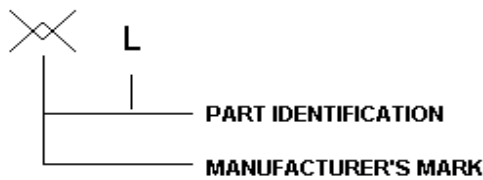
**Voltage: 6.0V<sub>DC</sub>**

**Short Circuit Current: 100A**

**Notes:**

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

**Marking:**



**TABLE I. DIMENSIONS:**

|     | A       |         | B       |         | C       |         | D       |         | E       |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|     | MIN     | MAX     | MIN     | MAX     | MIN     | MAX     | MIN     | MAX     | MIN     |
| mm: | 3.00    | 3.40    | 0.44    | 0.68    | 1.37    | 1.80    | 0.25    | 0.75    | 0.076   |
| in: | (0.118) | (0.134) | (0.017) | (0.027) | (0.054) | (0.071) | (0.010) | (0.030) | (0.003) |

**TABL 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, 8.0A | OHMS AT 25°C      |      | WATTS AT 25°C, 6.0V               |
| HOLD              | TRIP | HOLD            | TRIP | HOLD            | TRIP | MAX                   | MIN               | MAX* | MAX                               |
| 0.92              | 1.87 | 0.75            | 1.50 | 0.58            | 1.14 | 0.1                   | 0.09              | 0.30 | 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: nanoSMDC075F**

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PAGE NO.: 2 OF 2

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