

**Tyco / Electronics**  
**Raychem Circuit Protection**  
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 Menlo Park, CA 94025-1164  
 Phone: 800-227-4856  
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**PolySwitch®**  
**PTC Devices**  
 Overcurrent Protection Device

**PRODUCT: miniSMDC014**

DOCUMENT: SCD 24025  
 PCN: 941493  
 REV LETTER: L  
 REV DATE: SEPTEMBER 12, 2001  
 PAGE NO.: 1 OF 1

**Specification Status: RELEASED**

**Maximum Electrical Rating**

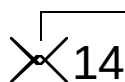
**Voltage: 60V<sub>DC</sub>**

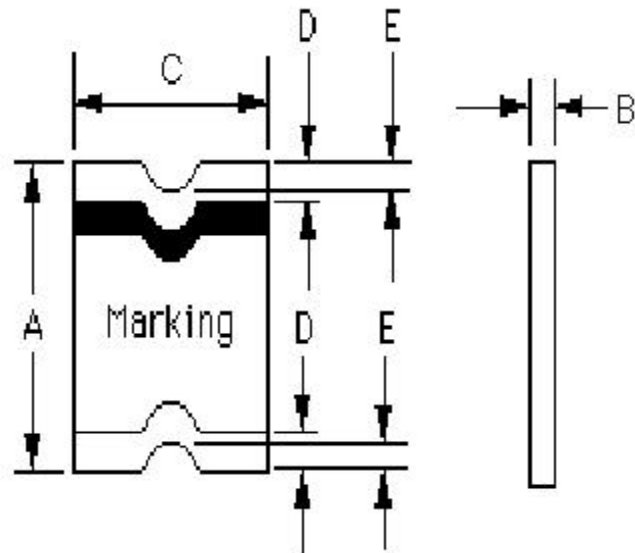
**Current: 10A**

**Notes:**

1. All terminations are tin/lead plated.
2. Devices can be wave soldered.
3. Drawing not to scale

**Marking:**


 Manufacturer's Mark  
 Part Identification



**TABLE I. DIMENSIONS:**

|     | A       |         | B       |         | C       |         | D       | E       |         |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|     | MIN     | MAX     | MIN     | MAX     | MIN     | MAX     | MIN     | MIN     | MAX     |
| mm  | 4.37    | 4.73    | 0.635   | 0.890   | 3.07    | 3.41    | 0.30    | 0.25    | 0.50    |
| in: | (0.172) | (0.186) | (0.025) | (0.035) | (0.121) | (0.134) | (0.012) | (0.010) | (0.020) |

**TABLE II. PERFORMANCE RATINGS:**

| CURRENT RATINGS**      |                      |                      | TIME TO TRIP **<br>@ 1.5A | TIME TO TRIP **<br>@ 8.0A | RESISTANCE VALUES        | POWER DISSIPATION    |
|------------------------|----------------------|----------------------|---------------------------|---------------------------|--------------------------|----------------------|
| AMPERES AT - 40°C HOLD | AMPERES AT 20°C HOLD | AMPERES AT 60°C HOLD | SECONDS AT 20°C           | SECONDS AT 20°C           | OHMS AT 20°C<br>MIN MAX* | WATTS AT 20°C<br>MAX |
| 0.23                   | 0.140                | 0.090                | 0.150                     | 0.008                     | 1.50 6.00                | 0.75                 |

\* Maximum resistance is measured 1 hour after reflow.

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

Reference Documents: PS300, E. N. SMD1.0x  
 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.