

Tyco / Electronics  
Raychem Circuit Protection  
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**PolySwitch®**  
**PTC Devices**  
Overcurrent Protection Device

**PRODUCT: miniSMD160F**

DOCUMENT: SCD 24884  
PCN: 126924  
REV LETTER: A  
REV DATE: SEPTEMBER 11, 2001  
PAGE NO.: 1 OF 1

## Specification Status: RELEASED

### Maximum Electrical Rating

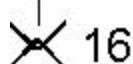
**Voltage:** 6V<sub>DC</sub>

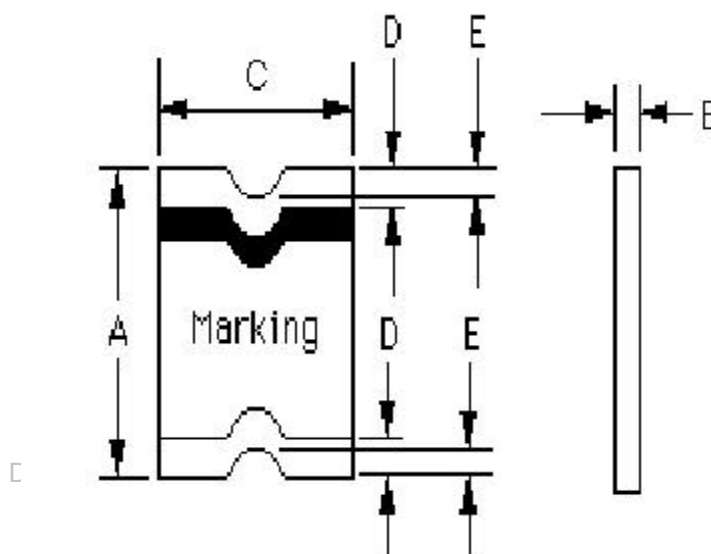
**Short Circuit Current:** 100A

#### Notes:

1. All terminations are tin 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    | 0.28    | 0.48    | 3.07    | 3.41    | 0.25    | 0.20    | 0.50    |
| in: | (0.172) | (0.186) | (0.011) | (0.019) | (0.121) | (0.134) | (0.010) | (0.008) | (0.020) |

**TABLE II. PERFORMANCE RATINGS:**

| CURRENT RATINGS**     |                      |                      | TIME TO TRIP **<br>@ 8.0A | RESISTANCE VALUES |                   | **TRIPPED-STATE POWER DISSIPATION |
|-----------------------|----------------------|----------------------|---------------------------|-------------------|-------------------|-----------------------------------|
| AMPERES AT -40°C HOLD | AMPERES AT 20°C HOLD | AMPERES AT 60°C HOLD | SECONDS AT 20°C MAX       | OHMS AT 20°C MIN  | OHMS AT 20°C MAX* | WATTS AT 20°C MAX                 |
| 2.50                  | 1.60                 | 1.10                 | 1.0                       | 0.03              | 0.10              | 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.

#### 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.