

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

PRODUCT: SMD250

DOCUMENT: SCD 22295
 PCN: 544467
 REV LETTER: J
 REV DATE: JULY 2, 2002
 PAGE NO.: 1 OF 1

Specification Status: Released

Maximum Electrical Ratings

Operating Voltage / Interrupt Current

15V / 40A

12V / 60A

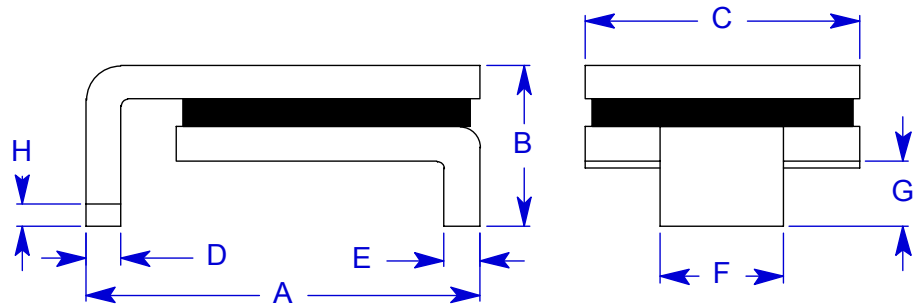
5V / 125A

Marking

⊗ 250

Manufacturer's Mark

Part Identification



Notes:

1. All metal surfaces are tin plated.
2. Devices cannot be wave soldered.
3. Drawing not to scale.

TABLE I. DIMENSIONS:

| | A | | B | | C | | D | | E | | F | | G | | H |
|------|---------|---------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| mm: | 8.00 | 9.40 | -- | 3.00 | 6.00 | 6.71 | 0.56 | 0.71 | 0.56 | 0.71 | 3.68 | 3.94 | 0.66 | 1.37 | 0.43 |
| in*: | (0.315) | (0.370) | -- | (0.118) | (0.236) | (0.264) | (0.022) | (0.028) | (0.022) | (0.028) | (0.145) | (0.155) | (0.026) | (0.054) | (0.017) |

*Rounded off approximation

TABLE II. PERFORMANCE RATINGS:

| CURRENT RATINGS** | | | | | | TIME TO TRIP** | RESISTANCE VALUES | | TRIPPED-STATE POWER DISSIPATION** |
|-------------------|------|--------------|------|--------------|------|---------------------------|-------------------|-------|-----------------------------------|
| AMPS AT 0°C | | AMPS AT 20°C | | AMPS AT 60°C | | SECONDS AT 20°C, 8.0A MAX | OHMS AT 20°C | | WATTS AT 20°C |
| HOLD | TRIP | HOLD | TRIP | HOLD | TRIP | | MIN | MAX* | MAX |
| 2.8 | 6.0 | 2.5 | 5.0 | 1.6 | 3.8 | 25 | 0.035 | 0.085 | 1.9 |

* Maximum resistance is measured 1 hour after reflow.

** Values specified were determined using PCB's with 0.070"X1.5 ounce copper traces.

Reference Documents:

PS300, E.N. SMD 1.0x

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.