

Tyco / Electronics
Raychem Circuit Protection
 308 Constitution Drive
 Menlo Park, CA 94025
 Phone: 800-227-4856
 Fax: 800-227-4866

PolySwitch®
PTC Devices
 Overcurrent Protection Device

PRODUCT: SMD100-2018

DOCUMENT: SCD 22562
 PCN: 483593
 REV LETTER: E
 REV DATE: APRIL 11, 2002
 PAGE NO.: 1 OF 1

Specification Status: Released

Maximum Electrical Ratings

Operating Voltage / Interrupt Current

15Vdc / 40A

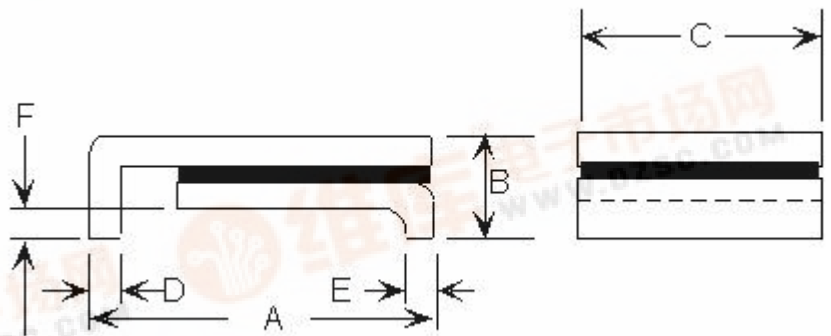
12Vdc / 60A

5Vdc / 125A

Marking:



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 | |
|------|---------|---------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX |
| mm: | 4.72 | 5.44 | -- | 1.52 | 4.22 | 4.93 | 0.25 | 0.36 | 0.25 | 0.36 | 0.30 | 0.46 |
| in*: | (0.186) | (0.214) | -- | (0.060) | (0.166) | (0.194) | (0.010) | (0.014) | (0.010) | (0.014) | (0.012) | (0.018) |

*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 | OHMS AT 20°C | | WATTS AT 20°C |
| HOLD | TRIP | HOLD | TRIP | HOLD | TRIP | MAX | MIN | MAX* | MAX |
| 1.20 | 2.40 | 1.10 | 2.20 | 0.72 | 1.45 | 0.5 | 0.100 | 0.400 | 1.4 |

* Maximum resistance is measured 1 hour after reflow

** Values specified were determined using PCB's with 0.030"x1.5ounce copper traces

Reference Documents:

Precedence:

Effectivity:

CAUTION.com

PS300, E.N. SMD 1.0x

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.

