

Specification Status: Released

Maximum Electrical Rating

Voltage: 60V_{DC}
Short Circuit Current: 10A

Notes:

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

Marking:



— PART IDENTIFICATION

— MANUFACTURER'S MARK

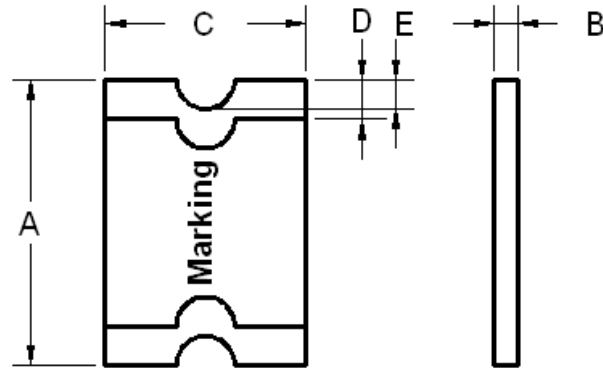


TABLE I. DIMENSIONS:

| | A | | B | | C | | D | | E |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| mm: | 7.30 | 7.70 | 0.63 | 0.90 | 4.90 | 5.30 | 0.25 | 0.95 | 0.20 |
| in: | (0.287) | (0.303) | (0.025) | (0.035) | (0.193) | (0.209) | (0.010) | (0.037) | (0.008) |

TABLE 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, 2.5A MAX | OHMS AT 25°C | | WATTS AT 25°C, 60V MAX |
| HOLD | TRIP | HOLD | TRIP | HOLD | TRIP | | MIN | MAX* | |
| 0.65 | 1.30 | 0.50 | 1.00 | 0.32 | 0.64 | 4.0 | 0.15 | 1.20 | 1.5 |

* Maximum resistance is measured 1 hour after reflow.

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

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: SMDC050F

DOCUMENT: SCD28983
REV LETTER: A
REV DATE: JULY 26, 2016
PAGE NO.: 2 OF 2

Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and shall not be used for, any purpose (including, without limitation, military, aerospace, medical, lifesaving, life-sustaining or nuclear facility applications, devices intended for surgical implant into the body, or any other application in which the failure or lack of desired operation of the product may result in personal injury, death, or property damage) other than those expressly set forth in applicable Littelfuse product documentation. Warranties granted by Littelfuse shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse documentation. Littelfuse shall not be liable for any claims or damages arising out of products used in applications not expressly intended by Littelfuse as set forth in applicable Littelfuse documentation. The sale and use of Littelfuse products is subject to Littelfuse Terms and Conditions of Sale, unless otherwise agreed by Littelfuse.