

**Specification Status: Released**

**Maximum Electrical Rating**

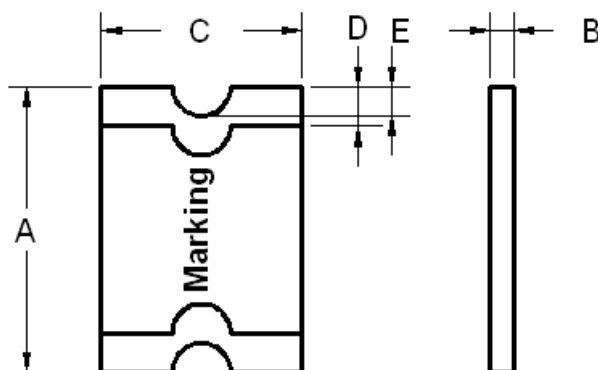
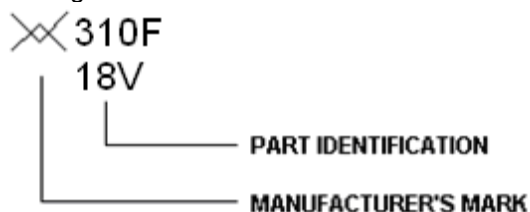
**Voltage: 18V<sub>DC</sub>**

**Short Circuit Current: 50A**

**Notes:**

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

**Marking:**



**TABLE I. DIMENSIONS:**

|     | A      |        | B      |        | C      |        | D      |        | E      |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|     | MIN    | MAX    | MIN    | MAX    | MIN    | MAX    | MIN    | MAX    | MIN    |
| mm: | 7.30   | 7.70   | 1.10   | 1.70   | 4.90   | 5.30   | 0.95   | 1.45   | 0.35   |
| in: | (0.29) | (0.30) | (0.04) | (0.07) | (0.19) | (0.21) | (0.04) | (0.06) | (0.01) |

**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 |      | AMPERES AT 85°C |      | SECONDS AT 25°C, 8A MAX | OHMS AT 25°C      | WATTS AT 25°C, 18V MAX            |      |
| HOLD              | TRIP | HOLD            | TRIP | HOLD            | TRIP | HOLD            | TRIP | MIN                     | MAX*              |                                   |      |
| 3.78              | 6.87 | 3.10            | 6.00 | 2.32            | 4.48 | 1.76            | 3.41 | 25.00                   | 0.013             | 0.036                             | 1.50 |

\* Maximum resistance is measured 1 hour after reflow.

\*\* Values Specified were determined using PCB's with 0.060"x1.0 ounce copper traces.

Agency Recognition: UL, CSA, TÜV

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.



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**PTC Devices**  
**Overcurrent Protection Device**

**PRODUCT: SMDC310F/18**

DOCUMENT: SCD28092  
REV LETTER: B  
REV DATE: July 26, 2016  
PAGE NO.: 2 OF 2

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