

## Specification Status: Released

### Maximum Electrical Rating

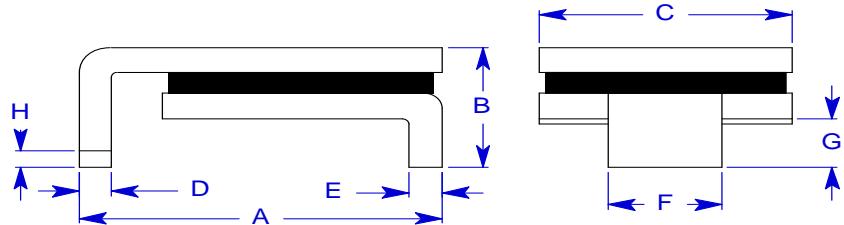
Operating Voltage / Interrupt Current

 33V<sub>DC</sub> / 40A

Marking:



□□□□ — Lot Identification



## Notes:

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

**TABLE I. DIMENSIONS:**

| mm:  | A       |         | B   |         | C       |         | D       |         | E       |         | F       |         | G       |         | H       |
|------|---------|---------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|      | MIN     | MAX     | MIN | MAX     | MIN     | MAX     | MIN     | MAX     | MIN     | MAX     | MIN     | MAX     | MIN     | MAX     | MIN     |
| mm:  | 8.0     | 9.4     | --  | 3.0     | 5.99    | 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) |

**TABLE II. PERFORMANCE RATINGS:**

| CURRENT RATINGS** |      |                   |      |                   |      | TIME TO TRIP**            |  | RESISTANCE VALUES |       | TRIPPED-STATE POWER DISSIPATION** |  |
|-------------------|------|-------------------|------|-------------------|------|---------------------------|--|-------------------|-------|-----------------------------------|--|
| AMPS AT 0°C HOLD  |      | AMPS AT 20°C HOLD |      | AMPS AT 60°C HOLD |      | SECONDS AT 20°C, 8.0A MAX |  | OHMS AT 20°C MIN  |       | WATTS AT 20°C MAX                 |  |
| 2.20              | 4.40 | 1.85              | 3.60 | 1.31              | 2.62 | 5.0                       |  | 0.065             | 0.165 | 1.5                               |  |

\* Maximum resistance is measured 24 hours after reflow.

\*\* Values were determined using PCB's with 70 mil X 2 ounce copper traces.

 Agency Recognition: UL, CSA, TÜV  
 Reference Documents: 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: SMD185F**

DOCUMENT: SCD25659  
REV LETTER: G  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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