

**Specification Status: Released**

**Maximum Electrical Ratings**

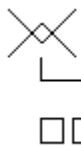
Operating Voltage / Interrupt Current

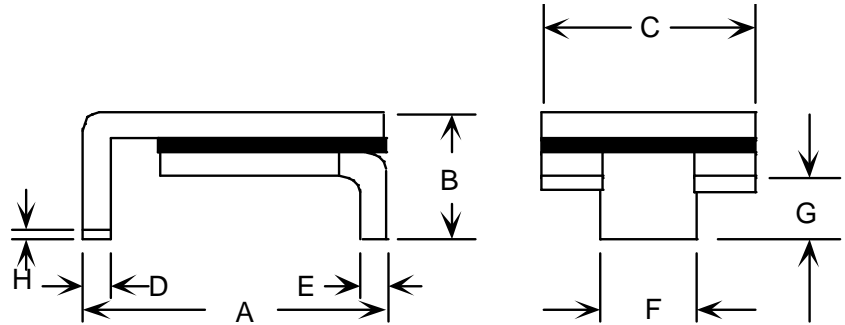
**15V<sub>DC</sub> / 40A**

**12V<sub>DC</sub> / 60A**

**5V<sub>DC</sub> / 125A**

Marking:


**125F** Part Identification  
 \_\_\_\_\_ Manufacturer's Mark  
 □□□□ Lot 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:  | 6.73    | 7.98    | --  | 3.00    | 4.8    | 5.44    | 0.56    | 0.71    | 0.56    | 0.71    | 2.16    | 2.41    | 0.66    | 1.37    | 0.43    |
| in*: | (0.265) | (0.314) | --  | (0.118) | (0.19) | (0.214) | (0.022) | (0.028) | (0.022) | (0.028) | (0.085) | (0.095) | (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       |      | AMPS AT 20°C |      | AMPS AT 60°C |      | SECONDS AT 20°C, 8.0A MAX | OHMS AT 20°C      |      | WATTS AT 20°C MAX                 |
| HOLD              | TRIP | HOLD         | TRIP | HOLD         | TRIP |                           | MIN               | MAX* |                                   |
| 1.50              | 3.00 | 1.25         | 2.50 | 0.85         | 1.7  | 2.0                       | 0.07              | 0.25 | 1.7                               |

\* Maximum resistance is measured 1 hour after reflow.

\*\* Values specified were determined using PCB's with 0.070"X1.5-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: SMD125F**

DOCUMENT: SCD25658  
REV LETTER: F  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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