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PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: microSMD150F

DOCUMENT: SCD25268

REV LETTER: H REV DATE: MAY 13. 2011

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Specification Status: Released

Maximum Electrical Rating

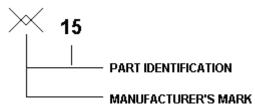
Voltage: 6V_{DC}

Short Circuit Current: 40A

Notes:

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

Marking:



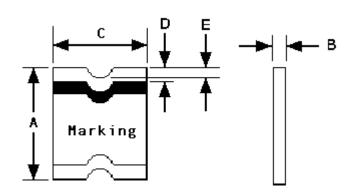


TABLE I. DIMENSIONS:

| | Α | | В | | С | | D | | Е |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| mm: | 3.00 | 3.43 | 0.51 | 1.22 | 2.35 | 2.80 | 0.25 | 0.75 | 0.076 |
| in: | (0.118) | (0.135) | (0.020) | (0.048) | (0.092) | (0.110) | (0.010) | (0.030) | (0.003) |

TABLE II. PERFORMANCE RATINGS:

| CURRENT RATINGS** | | | | | | TIME TO TRIP** | RESISTANCE VALUES | | TRIPPED-STATE POWER DISSIPATION** | | |
|----------------------|------|---------|------|---------|------|-------------------|----------------------|------|---|--|--|
| AMPERES AMPERES AMPE | | | ERES | SECONDS | OHMS | | WATTS AT | | | | |
| AT 0°C | | AT 20°C | | AT 60°C | | AT 20°C, 8A | AT 20°C | | 20°C, 6V | | |
| HOLD | TRIP | HOLD | TRIP | HOLD | TRIP | MAX | MIN | MAX* | MAX | | |
| 1.76 | 3.52 | 1.50 | 3.00 | 1.00 | 2.00 | 1.0 | 0.04 | 0.11 | 0.8 | | |

^{*}Maximum resistance is measured 1 hour after reflow.

Agency Recognition: UL, CSA, TÜV Reference Documents: PS300

This specification takes precedence over documents referenced herein. Precedence:

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*



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^{**} Values specified were determined using PCB's with 0.030"X1.5 ounce copper traces.

^{*} Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm