

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: SMD150F/33

DOCUMENT: SCD25168

REV LETTER: G

REV DATE: JULY 26,2016

G

PAGE NO.: 1 OF 2

Specification Status: Released

Maximum Electrical Ratings

Operating Voltage / Interrupt Current

 $33V_{DC} / 40A$ $12V_{DC} / 60A$ $5V_{DC} / 125A$

Marking:

153F — Part Identification

Manufacturer's Mark

□□□□ - Lot Identification



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

TABLE I. DIMENSIONS:

| | А | | В | | С | | D | | E | | F | | G | | Н |
|------|---------|---------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| mm: | 8.00 | 9.40 | | 3.00 | 6.0 | 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:

| | CU | RRENT | RATING | S** | | TIME TO TRIP** | RESISTANCE VALUES | | TRIPPED-STATE POWER | |
|------|--------|-------|---------|------|------|-------------------|----------------------|-------|------------------------|--|
| | | | | | | | | | DISSIPATION** | |
| AMPS | | AM | PS | AMPS | | SECONDS AT | OHMS | | WATTS AT | |
| AT | AT 0°C | | AT 20°C | | O°C | 20°C, 8.0A | AT 20°C | | 20°C | |
| HOLD | TRIP | HOLD | TRIP | HOLD | TRIP | MAX | MIN | MAX* | MAX | |
| 1.80 | 3.60 | 1.50 | 3.00 | 0.99 | 1.98 | 5.0 | 0.080 | 0.230 | 1.9 | |

^{*} Maximum resistance is measured both 1 hour post reflow and 1 hour post trip.

Agency Recognition: UL, CSA and 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

ELV Compliant

Pb-Free

Halogen Free*

Directive 2002/95/EC Compliant Directive 2000/53/EC Compliant





^{**} Values specified were determined using PCB's with 0.070"X1.5 ounce copper traces.

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



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