

Specification Status: RELEASED

Max Electrical Rating at 20°C

Operating Voltage: 250V_{DC}

Interrupt Current: 3A_{RMS}




Fault Voltage: 600V_{RMS}

Lead Material: Tin plated brass

Configuration: Two PPTC devices per
 TSM600 part

Case Material: Nylon Resin (UL94 V-0)
 1000V dielectric rating

Marking:

 Manufacturer's Mark
 TSM600 — Part Identification
 □ □ □ □ — Lot Identification

Terminal Description:

T1 = Tip In T4 = Tip Out

R2 = Ring In R3 = Ring Out

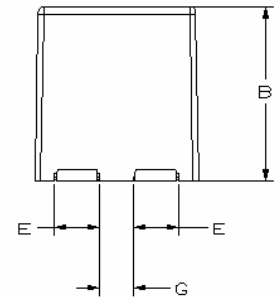
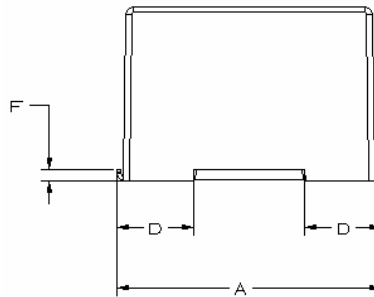
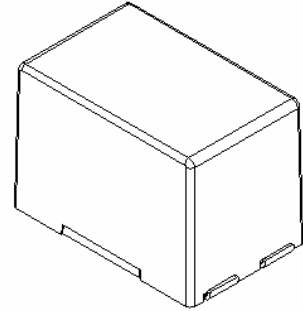
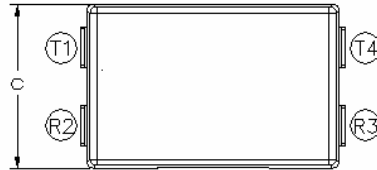


TABLE I. DIMENSIONS:

| | A | | B | | C | | D | | E | | F | | G | |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX |
| mm: | 17.0 | 17.6 | 11.2 | 11.7 | 10.4 | 11.2 | 4.8 | 5.2 | 2.5 | 2.8 | 0.6 | 1.0 | 2.2 | 3.1 |
| in: | (0.671) | (0.691) | (0.440) | (0.460) | (0.410) | (0.440) | (0.187) | (0.203) | (0.099) | (0.111) | (0.022) | (0.038) | (0.087) | (0.122) |

TABLE II. PERFORMANCE RATINGS @ 20°C (unless otherwise noted):

| IHOLD (A) | | RESISTANCE (Ω)** @ 20° C | | | TIME TO TRIP @ 3 A (Seconds) | | OPERATING TEMPERATURE (°C) | | Tripped State Power Dissipation @ 250V (Watts) TYPICAL |
|-----------|-------|--------------------------|-------|---------------------|------------------------------|-----|----------------------------|-----|--|
| 20°C | 60°C | R MIN | R TYP | R ₁ MAX* | TYP | MAX | MIN | MAX | |
| 0.250 | 0.140 | 1.0 | 3.0 | 5.0 | 1 | 6 | -40 | 85 | 2 |

* Maximum device resistance, measured 1-hour post reflow or post trip.

** Resistance per PPTC device.

Additional Ratings @ 20°C

Resistance Matched: 0.5 Ohm measured 24 hours after reflow installation

Storage Temperature: -40° to 85° C

Line Balance: 0.5 Ohm, 59 dB @ 4 kHz minimum***

Storage Humidity: Per IPC/JEDEC J-STD-020A Level 2a

***Tested in accordance with IEEE 455 with a device having a series longitudinal balance value of at least 60dB.

Agency Recognitions: UL, CSA

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.

MATERIALS INFORMATION

ROHS Compliant

Directive 2002/95/EC
 Compliant

ELV Compliant

Directive 2000/53/EC
 Compliant

Pb-Free



PolySwitch[®]
PTC Devices
Overcurrent Protection Device

PRODUCT: TSM600-250F-RA

DOCUMENT: SCD26007
REV LETTER: E
REV DATE: JULY 26, 2016
PAGE NO.: 2 OF 2

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