Tyco Electronics

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in:

PolySwitch® PTC Devices

Overcurrent Protection Device

Raychem Circuit Protection Products

PRODUCT: TSM600-250

DOCUMENT: SCD 24938 PCN: 244012 **REV LETTER: OBSOLETE (E) REV DATE: FEBRUARY 4, 2009** PAGE NO.: 1 OF 1

MAX

3.1

Specification Status: RELEASED Max Electrical Rating at 20°C Operating Voltage: 250V_{DC} Interrupt Current: 3A_{RMS} (77) (14) Fault Voltage: 600V_{RMS} R2) (R3) Lead Material: Tin plated brass Not to be used for new designs. Configuration: Two PPTC devices per TSM600 part For new designs please use TSM600-250F Case Material: Nylon Resin (UL94 V-0) 1000V dielectric rating Marking: Raychem Logo TSM600 ____ Part Identification Lot Identification Ð n Terminal Description: T1 = Tip In T4 = Tip OutR2 = Ring In R3 = Ring Out **TABLE I. DIMENSIONS:** G B C MIN MAX MIN MAX MIN MAX MIN MAX MIN MAX MIN MAX MIN 4.8 5.2 2.5 2.8 2.2 17.0 17.6 11.2 11.7 10.4 11.2 0.6 1.0 (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)(0.671) TABLE II. PERFORMANCE RATINGS @ 20°C (unless otherwise noted): TIME TO TRIP IHOLD (A) **RESISTANCE** $(\Omega)^*$ **OPERATING** Tripped state @ 20° C @ 3 A TEMPERATURE (°C) Power (Seconds) Dissipation @ 250V R MIN $R_{1 MAX}^{*}$ TYP MAX MIN MAX (Watts) TYPICAL 20°C 60°C **R** TYP 0.250 0.140 1.0 7.0 0.8 6 -40 85 35 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 Storage Temperature: -40° to 85° C reflow installation Line Balance: Per IPC/JEDEC J-STD-0.5 Ohm, 59 dB @ 4 kHz minimum*** Storage Humidity: 020A Level 2a ***Tested in accordance with IEEE 455 with a device having a series longitudinal balance value of at least 60dB Agency Recognition: 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. © 2006, 2007 Tyco Electronics Corporation. All rights reserved.