

# PolySwitch® PTC Devices

**Overcurrent Protection Device** 

## PRODUCT: nanoSMDC010F

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# **Specification Status: Released**

#### **Maximum Electrical Rating** Voltage: 60Vpc Short Circuit Current: 10A В Notes: D 1. All terminations are tin plated. 2. Drawing not to scale Marking: F PART IDENTIFICATION MANUFACTURER'S MARK **TABLE I. DIMENSIONS:** R C D F MIN MAX MIN MAX MIN MAX MIN MAX MIN 3.00 1.00 1.37 1.80 0.75 0.076 mm: 3.40 0.62 0.25 (0.118)(0.134)(0.024) (0.039)(0.054)(0.071)(0.010) (0.030) (0.003)in: TABL II. PERFORMANCE RATINGS: CURRENT RATINGS\*\* TIME TO RESISTANCE TRIPPED-STATE TRIP\*\* VALUES POWER **DISSIPATION\*\*** SECONDS AMPERES AMPERES AMPERES OHMS WATTS AT AT 60°C AT 0°C AT 25°C AT 25°C AT 25°C, 0.5A 25°C, 60V HOLD TRIP HOLD TRIP HOLD TRIP MAX MAX\* MAX MIN 0.30 0.10 0.25 0.07 0.18 1.0 15.00 0.8 0.12 1.60 \*Maximum resistance is measured 1 hour after reflow. \*\* Values specified were determined using PCB's with 0.030"X1.5 ounce copper traces. Agency Recognition: UL, TÜV Reference Document: PS300 Precedence: This specification takes precedence over documents referenced herein. Reference documents shall be the issue in effect on the date of invitation for bid. Effectivity: CAUTION: Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame. **Materials Information**



\* Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm.



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