

**Tyco / Electronics**  
**Raychem Circuit Protection**  
 308 Constitution Drive  
 Menlo Park, CA 94025-1164  
 Phone: 800-227-4856  
 Fax: 800-227-4866

**PolySwitch®**  
**PTC Devices**  
 Overcurrent Protection Device

**PRODUCT: nanoSMDC020F**

DOCUMENT: SCD 25536  
 PCN: F64573  
 REV LETTER: A  
 REV DATE :OCTOBER 9, 2003  
 PAGE NO.: 1 OF 1

**Specification Status: Released**

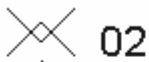
**Maximum Electrical Rating**

**Voltage: 24V<sub>DC</sub> MAX**  
**Short Circuit Current: 100A**

**Notes:**

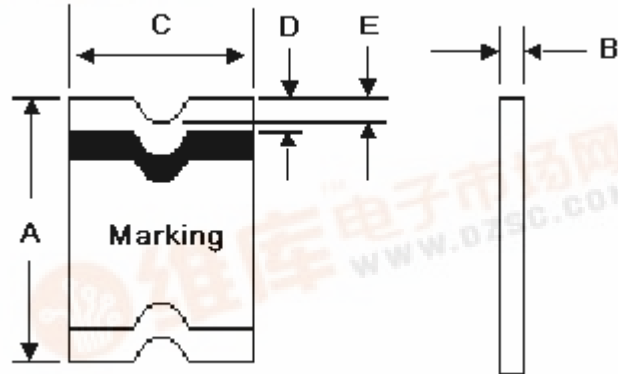
1. All terminations are tin plated.
2. Devices cannot be wave soldered.
3. Drawing not to scale

**Marking:**



**PART IDENTIFICATION**

**MANUFACTURER'S MARK**



**TABLE I. DIMENSIONS:**

	A		B		C		D	E
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MIN
mm:	3.00	3.4	0.38	0.64	1.37	1.80	0.15	0.076
in:	(0.118)	(0.134)	(0.015)	(0.025)	(0.054)	(0.071)	(0.006)	(0.003)

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

CURRENT RATINGS**						TIME TO TRIP**	RESISTANCE VALUES		TRIPPED-STATE POWER DISSIPATION**
AMPERES AT 0°C		AMPERES AT 25°C		AMPERES AT 60°C		SECONDS AT 25°C, 8.0A MAX	OHMS AT 25°C		WATTS AT 25°C, 24V MAX
HOLD	TRIP	HOLD	TRIP	HOLD	TRIP		MIN*	MAX*	
0.26	0.54	0.20	0.42	0.13	0.27	0.1	1.2	3.8	0.6

\* Resistance is measured 1 hour after reflow.

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

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 Por current may result in rupture, electrical arcing or flame.

