Tyco / Electronics Raychem Circuit Protection 308 Constitution Drive Menlo Park, CA 94025-1164

Menlo Park, CA 94025 Phone: 800-227-4856 Fax: 800-227-4866 PolySwitch® PTC Devices

**Overcurrent Protection Device** 

PRODUCT: nanoSMDM100

DOCUMENT: SCD 24572

PCN: 974958 REV LETTER: E

REV DATE: AUGUST 10, 2001

PAGE NO.: 1 OF 1

# **Specification Status: Released**

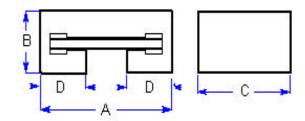
## **Maximum Electrical Rating**

Voltage: 6.0V<sub>DC</sub> MAX

Current: 40A

### Notes:

- All terminations are gold plated.
   Partial coverage of plating with solder may occur
   without effect on solderability or electrical performance
- 2. Devices cannot be wave soldered.
- 3. Drawing not to scale.



### Marking:

Manufacturer's Mark

Manufacturer's Mark

#### **TABLE I. DIMENSIONS:**

	Α		Е	3	C	;	D	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
mm:	3.0	3.4	0.8	1.2	1.4	1.8	0.75	1.05
in:*	(0.118)	(0.134)	(0.032)	(0.047)	(0.055)	(0.071)	(0.030)	(0.041)

<sup>\*</sup>Rounded off approximation

### **TABLE II. PERFORMANCE RATINGS:**

	CUF	RRENT F	RATING	S**		TIME TO	RESISTANCE		TRIPPED-STATE	
						TRIP **	VALUES		POWER	
									DISSIPATION**	
AMPERES		AMPERES		AMPERES		SECONDS	OHMS		WATTS AT	
AT 0°C		AT 25°C		AT 60°C		AT 25°C, 8.0A	AT 25°C		25°C, 6.0V	
HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	MAX	MIN	MAX*	MAX	
1.15	2.07	1.00	1.80	0.70	1.26	0.30	0.06	0.21	0.6	

<sup>\*</sup>Maximum resistance is measured 1 hour after reflow.

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.

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