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

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# PolySwitch® PTC Devices

**Overcurrent Protection Device** 

PRODUCT: nanoSMDC150

DOCUMENT: SCD 24573

PCN: 365226 REV LETTER: F

REV DATE: NOVEMBER 8, 2001

PAGE NO.: 1 OF 1

## **Specification Status: Released**

### **Maximum Electrical Rating**

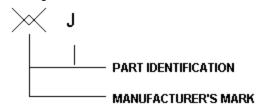
Voltage: 6.0V<sub>DC</sub> MAX Short Circuit Current: 100A

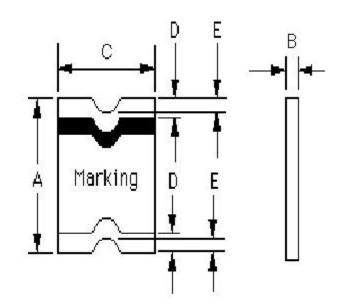
#### Notes:

- 1. All terminations are Tin/Lead plated.
- 2. Devices cannot be wave soldered.
- 3. Drawing not to scale

#### Marking:

mm: in:





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

Α		В		С		D	Е
MIN	MAX	MIN	MAX	MIN	MAX	MIN	MIN
3.00	3.4	0.85	1.40	1.37	1.90	0.25	0.127
(0.118)	(0.135)	(0.033)	(0.055)	(0.054)	(0.075)	(0.010)	0.005

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

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

CU	RRENT	RATING	GS**		TIME TO	RESISTANCE		TRIPPED-STATE
					TRIP **	VALUES		POWER
								DISSIPATION**
AMPERES	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
1.77 3.54	1.50	3.00	1.10	2.20	1.0	0.04	0.11	0.8

<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.