

308 Constitution Drive Menlo Park, CA 94025-1164 Phone: 800-227-4856 www.circuitprotection.com

PolySwitch® PTC Devices

Overcurrent Protection Device

Raychem Circuit Protection Products

PRODUCT: nanoSMDC012F

DOCUMENT: SCD 26094

REV LETTER: E

REV DATE: JANUARY 20, 2009

PAGE NO.: 1 OF 1

Specification Status: Released

Maximum Electrical Rating

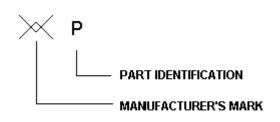
Voltage: 48V_{DC}

Short Circuit Current: 10A

Notes:

- 1. All terminations are tin plated.
- 2. Drawing not to scale

Marking:



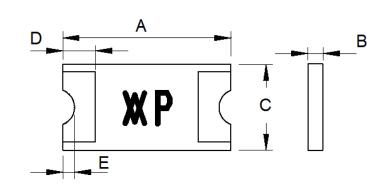


TABLE I. DIMENSIONS:

mm: in:

Α		В		C		D		E
MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
3.00	3.40	0.62	1.00	1.37	1.80	0.25	0.75	0.076
(0.118)	(0.134)	(0.024)	(0.039)	(0.054)	(0.071)	(0.010)	(0.030)	(0.003)

TABLE II. PERFORMANCE RATINGS:

TABLE III I ETT OTTIMATOE TATTIMOO.												
	CUF	RRENT	RATIN	GS**		TIME TO TRIP**	RESISTANCE VALUES		TRIPPED-STATE POWER DISSIPATION**			
AMPE		AMPE		AMPERES		SECONDS	OHMS		WATTS AT			
AT 0°C		AT 25°C		AT 60°C		AT 25°C, 1.0A	AT 25°C		25°C, 48V			
HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	MAX	MIN	MAX*	MAX			
0.15	0.60	0.12	0.39	0.09	0.27	0.2	1.4	6.5	0.5			

^{*} Resistance is measured 1 hour after reflow.

Agency Recognitions: UL, CSA, TÜV 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.

Materials Information

ROHS Compliant

Directive 2002/95/EC

Compliant

ELV Compliant

Directive 2000/53/EC

Compliant

Pb-Free

Halogen Free*



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

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