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PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: nanoSMDC012F

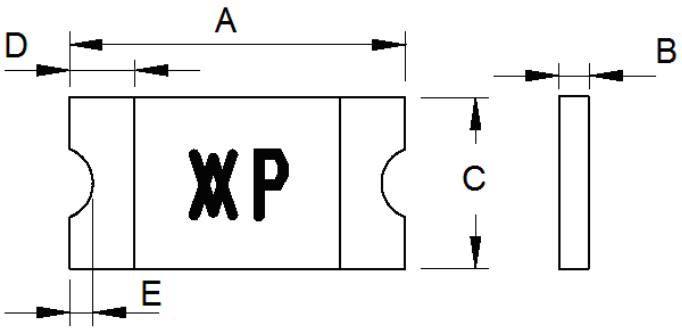
DOCUMENT: SCD26094
REV LETTER: G
REV DATE: JULY 26, 2016

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:

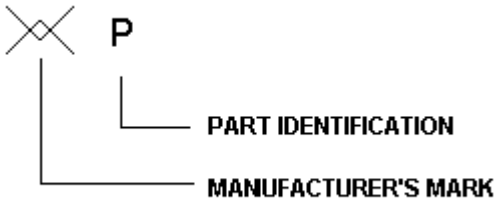


TABLE I. DIMENSIONS:

	A		B		C		D		E
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
mm:	3.00	3.40	0.62	1.00	1.37	1.80	0.25	0.75	0.076
in:	(0.118)	(0.134)	(0.024)	(0.039)	(0.054)	(0.071)	(0.010)	(0.030)	(0.003)

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, 1.0A	OHMS AT 25°C		WATTS AT 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.
** Values specified were determined using PCB's with 0.030"X1.5 ounce copper traces.

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*
HF

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

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Specifications are subject to change without notice.
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