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

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PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: nanoSMDM050F

DOCUMENT: SCD 24860

PCN: 652884 REV LETTER: B

REV DATE: SEPTEMBER 17, 2001

PAGE NO.: 1 OF 1

Specification Status: Released

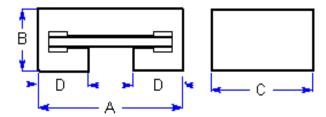
Maximum Electrical Rating

Voltage: 6.0V_{DC} MAX

Current: 40A

Notes:

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



Marking:

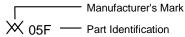


TABLE I. DIMENSIONS:

	Α		В		С		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)

^{*}Rounded off approximation

TABLE II. PERFORMANCE RATINGS:

CUF	RRENT RATIN	GS**	TIME TO	RESISTANCE		TRIPPED-	
			TRIP **	VALUES		STATE POWER	
						DISSIPATION**	
AMPERES AMPERES		AMPERES	SECONDS	OHMS		WATTS AT	
AT 0°C	AT 25°C	AT 60°C	AT 25°C, 8.0A	AT 2	25°C	25°C, 6.0V	
HOLD TRIP	HOLD TRIP	HOLD TRIP	MAX	MIN	MAX*	MAX	
0.59 1.18	0.50 1.00	0.35 0.70	0.10	0.15	0.70	0.6	

^{*}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.

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