

308 Constitution Drive Menlo Park, CA USA www.circuitprotection.com

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: picoSMDC050S

DOCUMENT: SCD27916 REV LETTER: D

REV DATE: NOVEMBER 15, 2011

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Specification Status: Released

Maximum Electrical Rating

Voltage: 6.0V_{DC}

Short Circuit Current: 100A

Notes:

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

Marking: K

mm: in:

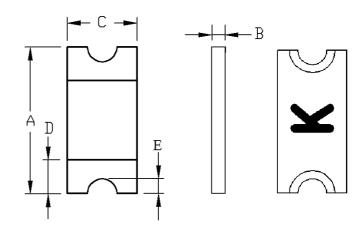


TABLE I. DIMENSIONS:

17.222 11 2 111 2 111 2 11 2 11 2 11 2 1										
Α		В		С		D		Е		
MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN		
2.00	2.20	0.63	0.93	1.30	1.50	0.25	0.75	0.076		
(0.079)	(0.087)	(0.025)	(0.036)	(0.051)	(0.059)	(0.010)	(0.030)	(0.003)		

TABLE II. PERFORMANCE RATINGS:

TABLE III I ERRI GRAIN WAS ERRATHAGO:												
	CUF	RENT	RATING	3S**		TIME TO TRIP**	RESISTANCE VALUES		TRIPPED-STATE POWER DISSIPATION**			
AMPERES		AMPERES		AMPERES		SECONDS	OHMS		WATTS AT			
AT 0℃		AT 25℃		AT 60℃		AT 25℃, 8A	AT 25℃		25℃, 6.0V			
HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	MAX	MIN	MAX*	MAX			
0.55	1.25	0.50	1.00	0.33	0.63	0.10	0.15	0.80	0.50			

^{*} Maximum resistance is measured 1 hour after reflow.

Agency Recognition: UL, CSA, TÜV Reference Document: 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*



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^{**} Values specified were determined using PCB's with 0.020"x1.5 ounce copper traces.

^{*} Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm.