

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

PAGE NO.: 1 OF 1

# **Specification Status: Released**

## **Maximum Electrical Rating**

Voltage: 6.0V<sub>DC</sub>

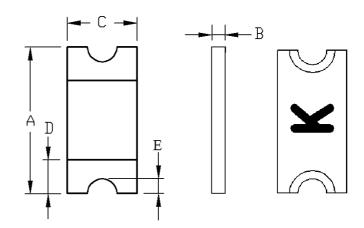
**Short Circuit Current: 100A** 

#### 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	RRENT	RATING	GS**		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			

<sup>\*</sup> 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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<sup>\*\*</sup> Values specified were determined using PCB's with 0.020"x1.5 ounce copper traces.

<sup>\*</sup> Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm.