



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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**Specification Status: Released**

**Maximum Electrical Rating**

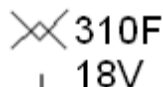
**Voltage: 18V<sub>DC</sub>**

**Short Circuit Current: 50A**

**Notes:**

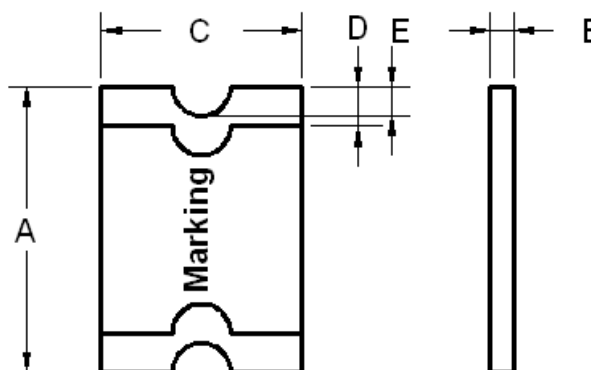
1. All terminations are tin plated.
2. Drawing not to scale

**Marking:**



PART IDENTIFICATION

MANUFACTURER'S MARK



**TABLE I. DIMENSIONS:**

A		B		C		D		E
MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
7.30	7.70	1.10	1.70	4.90	5.30	0.95	1.45	0.35
in: (0.29)	(0.30)	(0.04)	(0.07)	(0.19)	(0.21)	(0.04)	(0.06)	(0.01)

**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		AMPERES AT 85°C		SECONDS AT 25°C, 8A MAX	OHMS AT 25°C	WATTS AT 25°C, 18V MAX	
HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	MIN	MAX*		
3.78	6.87	3.10	6.00	2.32	4.48	1.76	3.41	25.00	0.013	0.036	1.50

\* Maximum resistance is measured 1 hour after reflow.

\*\* Values Specified were determined using PCB's with 0.060"x1.0 ounce copper traces.

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\***



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



Expertise Applied | Answers Delivered

**PolySwitch®**  
**PTC Devices**  
**Overcurrent Protection Device**

**PRODUCT: SMDC310F/18**

DOCUMENT: SCD28092  
REV LETTER: B  
REV DATE: July 26, 2016  
PAGE NO.: 2 OF 2

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