

Specification Status: Released

Maximum Electrical Rating

Voltage: 18V_{DC}
Short Circuit Current: 50A

Notes:

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

Marking:

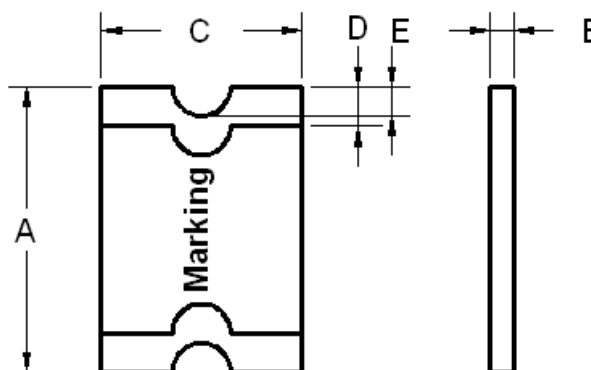
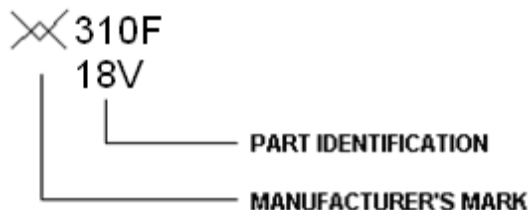


TABLE I. DIMENSIONS:

	A		B		C		D		E
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
mm:	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.



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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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