



**THE DATASHEET OF
SMDC185F/33-2**



Specification Status: Released

Maximum Electrical Rating

Voltage: 33V_{DC}

Short Circuit Current: 40A

Notes:

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

Marking:

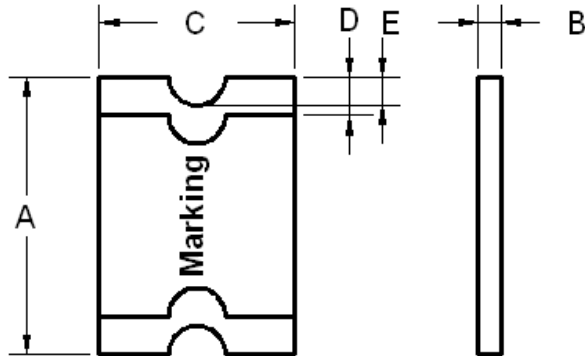
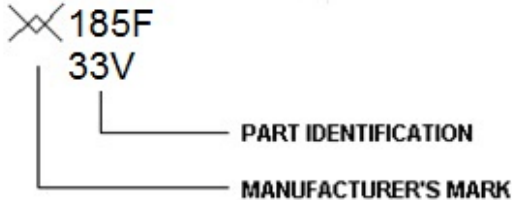


TABLE I. DIMENSIONS:

	A		B		C		D		E
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
mm:	7.30	7.70	0.90	1.20	4.90	5.30	0.25	0.95	0.20
in:	(0.29)	(0.30)	(0.04)	(0.05)	(0.19)	(0.21)	(0.01)	(0.04)	(0.01)

TABLE II. PERFORMANCE RATINGS:

CURRENT RATINGS**						TIME TO TRIP**	RESISTANCE VALUES		TRIPPED-STATE POWER DISSIPATION**
AMPERES AT 0°C		AMPERES AT 20°C		AMPERES AT 60°C		SECONDS AT 20°C, 8.0A MAX	OHMS AT 20°C		WATTS AT 20°C, 33V MAX
HOLD	TRIP	HOLD	TRIP	HOLD	TRIP		MIN	MAX*	
2.20	4.40	1.85	3.70	1.22	2.44	2.5	0.05	0.15	1.7

* Maximum resistance is measured 1 hour after reflow.

** Values Specified were determined using PCB's with 0.150"X1.5 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.



PolySwitch®
PTC Devices
Overcurrent Protection Device



PRODUCT: SMDC185F/33

DOCUMENT: SCD28653
REV LETTER: A
REV DATE: JULY 26, 2016
PAGE NO.: 2 OF 2

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