

Specification Status: Released
Maximum Electrical Rating

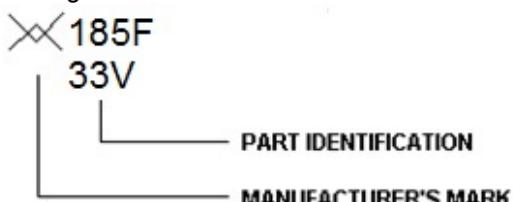
 Voltage: 33V_{DC}

Short Circuit Current: 40A

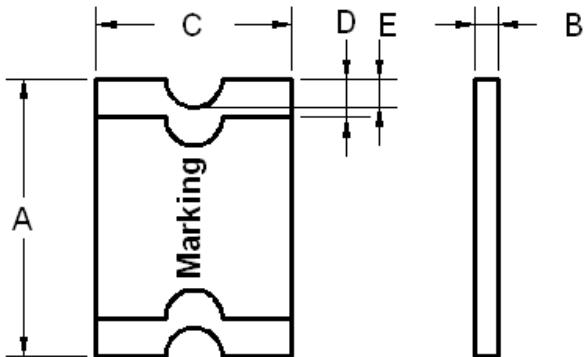
Notes:

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

Marking:



 185F
 33V
 PART IDENTIFICATION
 MANUFACTURER'S MARK


TABLE I. DIMENSIONS:

mm:	A		B		C		D		E	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
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 HOLD		AMPERES AT 20°C HOLD		AMPERES AT 60°C HOLD	SECONDS AT 20°C, 8.0A MAX	OHMS AT 20°C MIN	WATTS AT 20°C, 33V MAX
2.20	4.40	1.85	3.70	1.22	2.44	2.5	0.05

* 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

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