

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: SMD185F

DOCUMENT: SCD25659 REV LETTER: G

REV DATE: JULY 26, 2016

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Specification Status: Released

Maximum Electrical Rating Operating Voltage / Interrupt Current

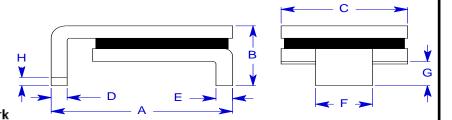
33V_{DC} / 40A

Marking:

185F - Part Identification

Manufacturer's Mark

□□□□ — Lot Identification



Notes:

- 1. All metal surfaces are tin plated.
- 2. Devices cannot be wave soldered.
- 3. Drawing not to scale.

TABLE I. DIMENSIONS:

	Α		В		С		D		Е		F		G		Н
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
mm:	8.0	9.4		3.0	5.99	6.71	0.56	0.71	0.56	0.71	3.68	3.94	0.66	1.37	0.43
in*:	(0.315)	(0.370)		(0.118)	(0.236)	(0.264)	(0.022)	(0.028)	(0.022)	(0.028)	(0.145)	(0.155)	(0.026)	(0.054)	(0.017)

TABLE II. PERFORMANCE RATINGS:

	CU	RRENT	RATING	S**		TIME TO TRIP**	RESISTANCE VALUES		TRIPPED-STATE POWER	
									DISSIPATION**	
AM	IPS	AM	PS	AMPS		SECONDS AT	OHMS		WATTS AT	
AT 0°C		AT 20°C		AT 60°C		20°C, 8.0A	AT 20°C		20°C	
HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	MAX	MIN	MAX*	MAX	
2.20	4.40	1.85	3.60	1.31	2.62	5.0	0.065	0.165	1.5	

^{*} Maximum resistance is measured 24 hours after reflow.

Agency Recognition: UL, CSA, TÜV Reference Documents: 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*

^{**} Values were determined using PCB's with 70 mil X 2 ounce copper traces.

^{*} Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm



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