

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: BD540-30

DOCUMENT: SCD28232 **REV LETTER: C**

REV DATE: JULY 26, 2016 PAGE NO.: 1 OF 2

Specification Status: Released

Electrical Rating

Voltage: 16Vdc MAX Current: 100A MAX

Terminal Material:

Brass H65

Thickness: 0.8mm

Tin plating thickness: 5 µm

Insulating Material:

Green color PBT

Marking:

mm in*

- Manufacturer's Mark BD540-30 - Part ID - Lot Number

D(2x1 Test Points

TABLE I. DIMENSIONS:

	Α		В		С		D		Е		F		G	
	MIN	MAX												
า	21.65	22.36	7.06	7.74	9.35	10.55	5.28	5.72	0.7	0.83	9.5	10	24.75	25.4
	0.852	0.880	0.278	0.305	0.368	0.415	0.208	0.225	0.028	0.033	0.374	0.394	0.974	1.000

ŀ	1	I(Ref.)		J(Ref.)		K(Ref.)		L(Ref.)	
MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
6.05	6.65	3.4	3.6	3.4	3.6	18	18.2	18.4	18.6
0.238	0.262	0.134	0.142	0.134	0.142	0.709	0.717	0.724	0.732

^{*}Rounded off approximation

TABLE II: PERFORMANCE RATINGS:

RESISTANCE	TIME TO	TRIP	HOLD	TRIPPED-	
VALUES	TRIP AT	CURRENT AT	CURRENT AT	STATE	
	120AMPS	Rmin	Rmax	POWER	
				DISSIPATION	
OHMS	SECONDS	AMPS	AMPS	WATTS AT	
AT 25°C	AT 25°C	AT 25°C	AT 25°C	20°C, 14V	
MIN MAX	MAX	MAX	MIN	TYP	
0.0016 0.0044	13	40	21	6.2	

Reference Documents: PS300, PS400

Precedence: This specification takes precedence over documents referenced herein. Effectivity: Reference documents shall be the issue in effect on the date of invitation or bid.

CAUTION:

Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame. When using a test probe to probe either of the two test points on the top of the device, care should be taken to avoid puncturing through the insulating material of the device, as this can result in

shorting out the terminals which can cause electrical arcing or flame.



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Materials Information

ROHS Compliant

ELV Compliant

Pb-Free

Directive 2002/95/EC Compliant Directive 2000/53/EC



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