

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT:BD280-1927-25/16-W

DOCUMENT : SCD26436 REV LETTER: H

REV DATE: JULY 26, 2016

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Specification Status: Released

Electrical Rating

Voltage: 14Vdc MAX Current: 100A MAX

Terminal Material:

Brass H65

Thickness: 0.8mm

Tin plating thickness: 5µm

Insulating Material:

White color PBT, Meets UL94V-0 Requirements

Marking:

- Manufacturer's Mark 14VDC - Voltage Rating BD280-1927-25 - Part ID

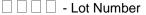


TABLE I. DIMENSIONS:

	Α		В		С		D		E		F	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
mm:	27.15	27.85	8.6	9.2	10.75	11.25	6.05	6.65	2.55	3.05	1.8	2.2
in*:	1.069	1.096	0.339	0.362	0.423	0.443	0.238	0.262	0.1	0.12	0.071	0.087

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MIN	MAX	MIN	MAX	MIN	MAX
3.5	3.9	1.7	2.3	19	19.4
0.138	0.154	0.067	0.091	0.748	0.764

^{*}Rounded off approximation

TABLE II: PERFORMANCE RATINGS:

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INITIAL	TIME TO TRIP	TRIP CURRENT	R1max ONE-	HOLD	TRIPPED-	
RESISTANCE	AT 100AMPS	AT Rmin	HOUR	CURRENT AT	STATE	
VALUES			POST-TRIP	R1max	POWER	
			RESISTANCE		DISSIPATION	
OHMS	SECONDS AT	AMPS	OHMS	AMPS	WATTS AT	
AT 25°C	25°C	AT 25°C	AT 25°C	AT 25°C	20°C, 14V	
MIN MAX	MAX	MAX	MAX	MIN	TYP	
0.0024 0.0033	13	32	0.0042	20	6.0	

Reference Documents: PS300, PS400 & SAE-J2685

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.

Materials Information

ROHS Compliant ELV Compliant Pb-Fro

Directive 2002/95/EC Compliant

Directive 2000/53/EC Compliant





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