

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: BD280-1927-30/16-W

DOCUMENT: SCD26437
REV LETTER: H
REV DATE: JULY 1, 2014
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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:

Green color PBT, Meets
UL94V-0 Requirements

Marking:

⊗ - Manufacturer's Mark
14VDC - Voltage Rating
BD280-1927-30 - Part ID

□ □ □ □ - Lot Number

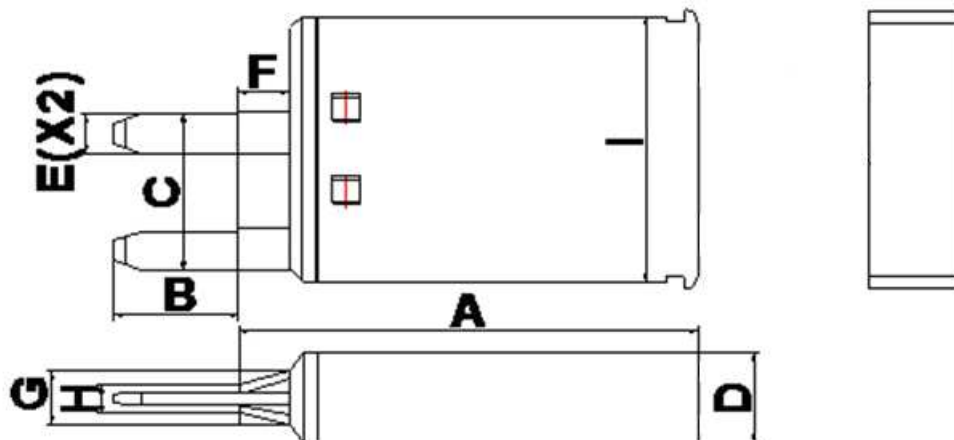


TABLE I. DIMENSIONS:

	A		B		C		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*:	1.049	1.077	0.339	0.362	0.423	0.443	0.238	0.262	0.1	0.12	0.071	0.087

G		H		I	
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:

INITIAL RESISTANCE VALUES		TIME TO TRIP AT 120AMPS		TRIP CURRENT AT Rmin		R1max ONE-HOUR POST-TRIP RESISTANCE		HOLD CURRENT AT R1max		TRIPPED- STATE POWER DISSIPATION	
OHMS AT 25°C		SECONDS AT 25°C		AMPS AT 25°C		OHMS AT 25°C		AMPS AT 25°C		WATTS AT 20°C, 14V TYP	
MIN	MAX	MAX		MAX		MAX		MIN			
0.0021	0.0031	13		38		0.0043		21		6.2	

Reference Documents:

Precedence:

Effectivity:

CAUTION:

PS300, PS400 & SAE-J2685

This specification takes precedence over documents referenced herein.

Reference documents shall be the issue in effect on the date of invitation or bid.

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-Free

Directive 2002/95/EC
Compliant

Directive 2000/53/EC
Compliant

