

PolySwitch® PTC Devices Overcurrent Protection Device

PRODUCT: BD280-1130-15/16

DOCUMENT: SCD26434
REV LETTER: I
REV DATE: JULY 1, 2014
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Specification Status: Released

Electrical Rating

Voltage: 14 Vdc MAX
Current: 100 A MAX

Terminal Material:

Brass H65
Thickness: 0.8mm
Tin plating thickness: 5µm

Insulating Material:

Black & Light Blue color PBT,
Meets UL94V-0
Requirements

Marking:

XX - Manufacturer's Mark
14VDC - Voltage Rating
BD280-1130-10 - Part ID

□ □ □ □ - Lot Number

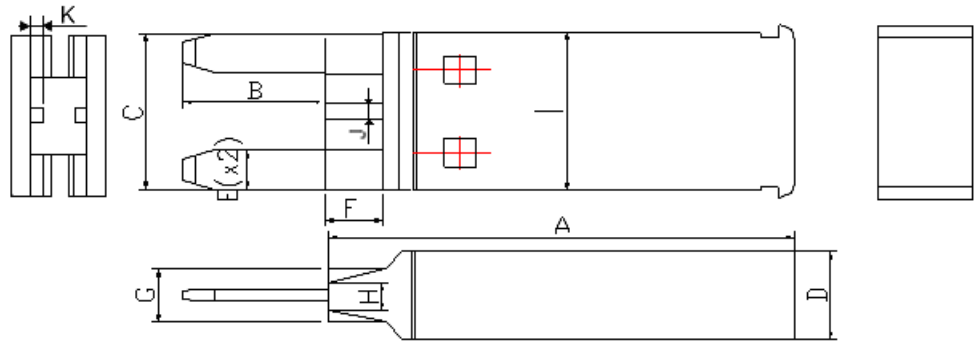


TABLE I. DIMENSIONS:

mm:
in*:

A		B		C		D		E(x2)		F	
MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
30.0	30.6	8.7	9.3	10.75	11.25	6.05	6.65	2.55	3.05	3.3	3.9
1.181	1.205	0.343	0.366	0.423	0.443	0.238	0.262	0.1	0.12	0.13	0.154

G		H		I		J		K	
MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
3.4	4	1.7	2.3	10.9	11.5	0.8	1.2	0.6	1.0
0.134	0.157	0.067	0.091	0.429	0.453	0.031	0.047	0.024	0.039

*Rounded off approximation

TABLE II: PERFORMANCE RATINGS:

INITIAL RESISTANCE VALUES		TIME TO TRIP AT 60AMPS		TRIP CURRENT AT Rmin		R1max ONE-HOUR POST-TRIP RESISTANCE		HOLD CURRENT AT R1max		TRIPPED- STATE POWER DISSIPATION	
OHMS AT 25°C MIN MAX		SECONDS AT 25°C MAX		AMPS AT 25°C MAX		OHMS AT 25°C MAX		AMPS AT 25°C MIN		WATTS AT 20°C, 14V TYP	
0.0050	0.0070	8.0		20.0		0.010		12.0		4.5	

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

