PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: BD280-1130-10/16

DOCUMENT: SCD26433
REV LETTER: I
REV DATE: JULY 26, 2016

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:
Red color PBT, Meets UL94V-0 Requirements

Marking:
XX - Manufacturer's Mark 14VDC - Voltage Rating
BD280-1130-10 - Part ID
□□□□ - Lot Number

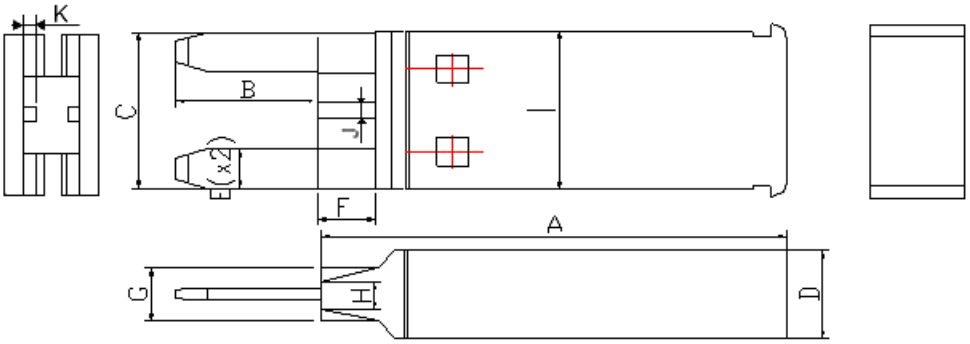

TABLE I. DIMENSIONS :

	A		B		C		D		E(x2)		F	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
Mm :	30.0	30.6	8.7	9.3	10.75	11.25	6.05	6.65	2.55	3.05	3.3	3.9
in*:	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 40AMPS	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
0.0095	0.0135	8.0	13.0	0.0185	8.0	4.4

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
Directive 2002/95/EC Compliant

ELV Compliant
Directive 2000/53/EC Compliant

Pb-Free

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