

**Specification Status: Released**

**Electrical Rating**

Voltage: 14 Vdc MAX  
Current: 100 A MAX

**Terminal Material:**

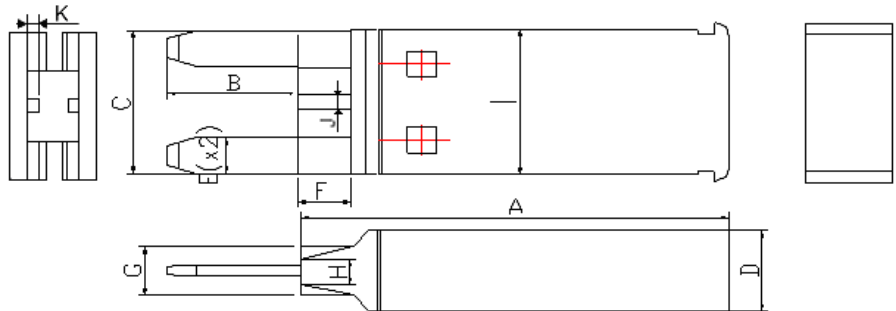
Brass H65  
Thickness: 0.8mm  
Tin plating thickness: 5µm

**Insulating Material:**

Black & Yellow color PBT,  
Meets UL94V-0  
Requirements

**Marking:**

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



**TABLE I. DIMENSIONS :**

| mm : | 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   |
| 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 80AMPS | 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          |
| 0.0028   0.0045           | 10.0                   | 26.0                 | 0.0064                              | 16                    | 5.2                             |

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





**PolySwitch®**  
**PTC Devices**  
Overcurrent Protection Device

**PRODUCT: BD280-1130-20/16**

DOCUMENT: SCD26435  
REV LETTER: I  
REV DATE: JULY 26, 2016  
PAGE: 2 OF 2

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