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# PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: VLP120UF

DOCUMENT: SCD27299  
REV LETTER: E  
REV DATE: JULY 26, 2016  
PAGE NO.: 1 OF 2

## Specification Status: Released

### Maximum Electrical Rating

Operating Voltage: 16Vdc MAX

Interrupt Current: 60A MAX

Chip Size: 3.5x4.5mm

Leads: Nickel 1/2H

0.125mm nominal thickness

Solder: Lead-free

Tape: None

Marking: Laser marking

□ □ □ □ — Lot Identification

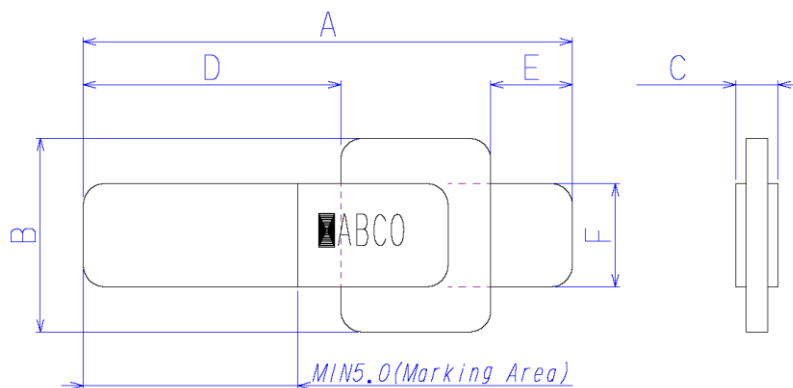


TABLE I. DIMENSIONS:

|      | A    |      | B    |      | C   |       | D    |      | E     |       | F     |       |
|------|------|------|------|------|-----|-------|------|------|-------|-------|-------|-------|
|      | MIN  | MAX  | MIN  | MAX  | MIN | MAX   | MIN  | MAX  | MIN   | TYP   | MIN   | MAX   |
| mm:  | 10.9 | 11.8 | 4.4  | 4.6  | --  | 0.7   | 5.5  | 6.5  | 1.65  | 1.9   | 2.3   | 2.5   |
| in*: | 0.43 | 0.46 | 0.17 | 0.18 | --  | 0.028 | 0.22 | 0.26 | 0.065 | 0.075 | 0.091 | 0.098 |

\*Rounded off approximation

TABLE II. PERFORMANCE RATINGS: As measured in Mueller Kelvin Clips model BU-75K.

| I HOLD | CURRENT TRIP LIMITS |      |             |      |              |      |              |      | TIME TO TRIP |      | REFERENCE RESISTANCE  |       | ONE-HOUR POST-TRIP RESISTANCE |       | TRIPPED-STATE POWER DISSIPATION |                    |     |
|--------|---------------------|------|-------------|------|--------------|------|--------------|------|--------------|------|-----------------------|-------|-------------------------------|-------|---------------------------------|--------------------|-----|
|        | AMPS 25°C HOLD      |      | AMPS AT 0°C |      | AMPS AT 25°C |      | AMPS AT 40°C |      | AMPS AT 60°C |      | SECONDS AT 25°C, 7.0A |       | OHMS AT 25°C                  |       |                                 | WATTS AT 25°C, 16V |     |
|        | HOLD                | TRIP | HOLD        | TRIP | HOLD         | TRIP | HOLD         | TRIP | HOLD         | TRIP | TYP                   | MAX   | MIN                           | MAX   | MIN                             | MAX                | MAX |
| 1.2    | 1.8                 | 4.9  | 1.2         | 3.6  | 1.0          | 3.0  | 0.6          | 2.1  | -            | 5.0  | 0.039                 | 0.067 | 0.039                         | 0.134 |                                 |                    | 1.6 |

Agency Recognition:  
Reference Document:  
Precedence:  
Effectivity:  
CAUTION:

UL, TUV, CSA  
PS300  
This specification takes precedence over documents referenced herein.  
Reference documents shall be the issue in effect on the date of invitation for bid.  
Operation beyond the rated voltage or current may result in rupture, 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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