

## Specification Status: Released

### Maximum Electrical

#### Rating

Operating Voltage: 12Vdc

Interrupt Current: 100A

Chip Size: 5 X 12mm

Leads: Nickel 1/4H

0.125mm nominal  
thickness

Solder: Lead-free

Tape: Polyester (White)

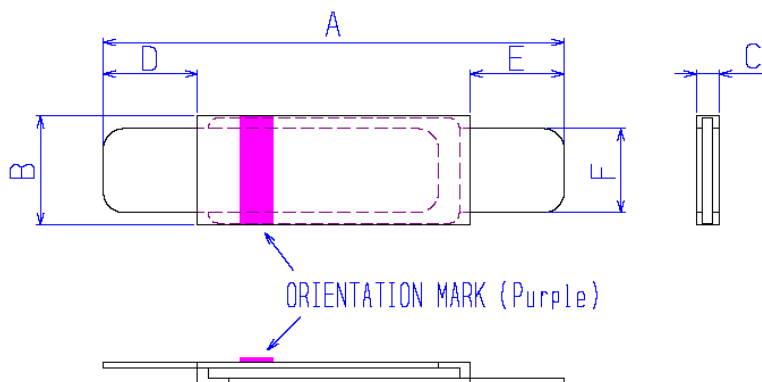
13 mm nominal width

Marking: (Color: Green)

— Manufacturer's Mark

XX R23 — Part Identification

□□□□ — Lot Identification



**TABLE I. DIMENSIONS:**

|      | A      |        | B      |        | C   |        | D      |        | E      |        | F      |        |
|------|--------|--------|--------|--------|-----|--------|--------|--------|--------|--------|--------|--------|
|      | MIN    | MAX    | MIN    | MAX    | MIN | MAX    | MIN    | MAX    | MIN    | MAX    | MIN    | MAX    |
| mm:  | 20.9   | 23.1   | 4.9    | 5.3    | --- | 0.8    | 4.1    | 5.8    | 4.1    | 5.8    | 3.9    | 4.1    |
| in*: | (0.82) | (0.91) | (0.19) | (0.21) | --  | (0.03) | (0.16) | (0.23) | (0.16) | (0.23) | (0.15) | (0.16) |

\*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           |      | AMPS AT 0°C |      | AMPS AT 25°C |      | AMPS AT 60°C |      | AMPS AT --°C |     | SECONDS AT 25°C, 10.0A |       | OHMS AT 25°C                  |       | OHMS AT 25°C                    |     | WATTS AT 25°C, 12V |
| HOLD   | HOLD                | TRIP | HOLD        | TRIP | HOLD         | TRIP | HOLD         | TRIP | TYP          | MAX | MIN                    | MAX   | TYP                           | MAX   | TYP                             | MAX |                    |
| 2.3    | 3.4                 | 6.6  | 2.3         | 5.0  | 0.9          | 2.3  | ---          | ---  | 2.4          | 5   | 0.012                  | 0.018 | 0.031                         | 0.036 | 1.4                             | 2.5 |                    |

Agency Recognitions: UL, TUV, CSA

Reference Documents: PS300

Precedence: This specification takes precedence over documents referenced herein.

Effectivity: Reference documents shall be the issue in effect on the date of invitation for bid.

CAUTION: 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**



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

**PRODUCT: VLR230F**

DOCUMENT: SCD25580  
PCN: D03587  
REV LETTER: D  
REV DATE: July 26, 2016  
PAGE NO.: 2 OF 2

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