

## Specification Status: Released

### Electrical Rating

Voltage: 20V MAX

Current: 100A MAX

Chip Size: 10 X 12mm

Leads: Nickel 1/4H

0.125mm nominal thickness

Tape: Polyester (White)

13.0mm nominal Width

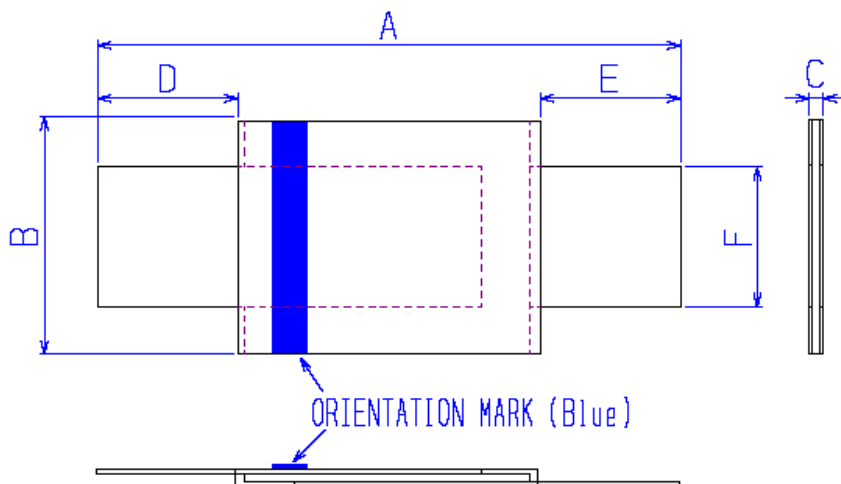
Solder: Lead-free

Marking: (Color: Green)

Manufacturer's Mark

XX E45 — 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:  | 24.0   | 26.0   | 9.9    | 10.5   | 0.6    | 1.0    | 5.3    | 6.7    | 5.3    | 6.7    | 5.9    | 6.1    |
| in*: | (0.94) | (1.02) | (0.39) | (0.41) | (0.02) | (0.04) | (0.21) | (0.26) | (0.21) | (0.26) | (0.23) | (0.24) |

\*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 20°C | AMPS AT 0°C         |      | AMPS AT 20°C |      | AMPS AT 60°C |      | AMPS AT --°C |      | SECONDS AT 20°C, 22.5A |     | OHMS AT 20°C         |       | OHMS AT 20°C                  |       | WATTS AT 20°C, 20V              |     |
| HOLD      | HOLD                | TRIP | HOLD         | TRIP | HOLD         | TRIP | HOLD         | TRIP | TYP                    | MAX | MIN                  | MAX   | MIN                           | MAX   | TYP                             | MAX |
| 4.5       | 5.3                 | 10.4 | 4.5          | 8.9  | 3.3          | 6.5  | --           | --   | --                     | 5   | 0.011                | 0.020 | 0.011                         | 0.028 | --                              | 2.3 |

Agency Recognitions:

Reference Documents:

Precedence:

Effectivity:

CAUTION:  
flame.

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

### 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: LR4-450F**

DOCUMENT: SCD25849  
PCN: 177226  
REV LETTER: D  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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