

**Specification Status: Released**

**Electrical Rating**  
Voltage: 20V MAX  
Current: 100A MAX

**Chip Size: 10 X 12mm**

**Leads: Nickel 1/4H**  
0.125mm nominal thickness

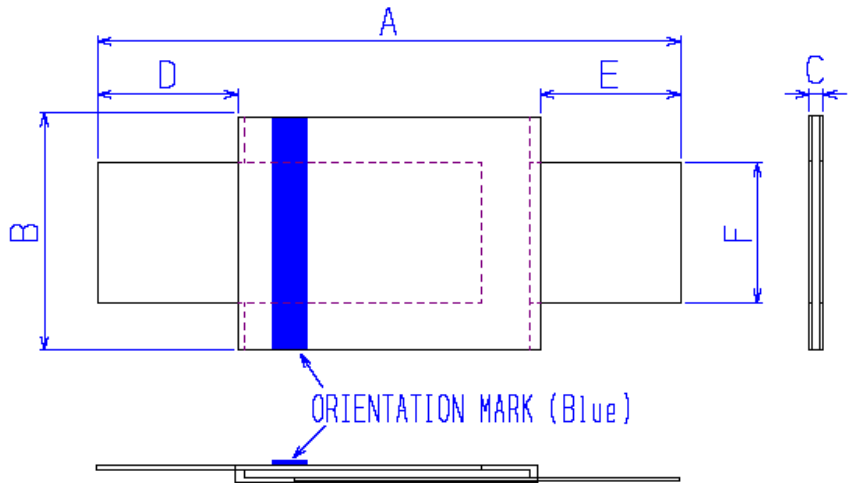
**Tape: Polyester (White)**  
13.0mm nominal Width

**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 | REFERENC<br>E<br>RESISTAN<br>CE | ONE-HOUR<br>POST-TRIP<br>RESISTANC<br>E |       | TRIPPED-<br>STATE<br>POWER<br>DISSIPATION |     |                       |     |     |
|--------|---------------------|------|----------------|------|-----------------|------|-----------------|------|-----------------|--------------|---------------------------------|---|-------|---|-----|-----------------------|-----|-----|
|        | AMPS<br>20°C        |      | AMPS<br>AT 0°C |      | AMPS<br>AT 20°C |      | AMPS<br>AT 60°C |      | AMPS<br>AT --°C |              |                                 | SECONDS<br>AT<br>20°C, 22.5A            |       | OHMS<br>AT 20°C                           |     | WATTS AT<br>20°C, 20V |     |     |
|        | HOLD                | TRIP | HOLD           | TRIP | HOLD            | TRIP | HOLD            | TRIP | HOLD            |              |                                 | TRIP                                    | TYP   | MAX                                       | MIN | MAX                   | MIN | 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:

UL, TUV, CSA  
PS300

Effectivity:  
CAUTION:

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**





Expertise Applied | Answers Delivered

**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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