



Expertise Applied | Answers Delivered

# PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: SRP420F

DOCUMENT: SCD25985  
REV LETTER: E  
REV DATE: JULY 26, 2016  
PAGE NO.: 1 OF 2

## Specification Status: Released

### Electrical Rating

Voltage: 30V MAX

Current: 100A MAX

Chip Size: 13.1x15.9mm

Leads: Nickel 1/4H

0.125mm nominal thickness

Tape: Polyester(White)

19.5mm Width

Solder: Lead-free

Lot Marking Ink Color (Green)

Marking:

— Manufacturer's Mark

XX 420 — Part Identification

□ □ □ □ — Lot Identification

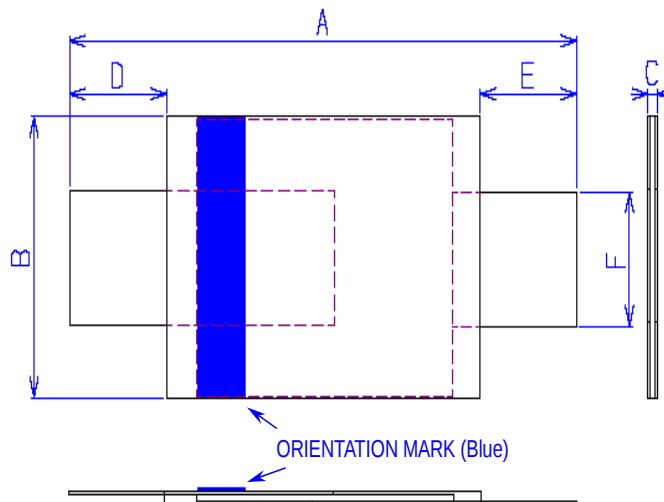


TABLE I. DIMENSIONS:

|      | A      |        | B      |        | C      |        | D      |        | E      |        | F      |        |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|      | MIN    | MAX    | MIN    | MAX    | MIN    | MAX    | MIN    | MAX    | MIN    | MAX    | MIN    | MAX    |
| mm:  | 30.6   | 32.4   | 12.9   | 13.6   | 0.5    | 1.1    | 5.0    | 7.5    | 5.0    | 7.5    | 6.0    | 6.7    |
| in*: | (1.20) | (1.28) | (0.51) | (0.54) | (0.02) | (0.04) | (0.20) | (0.30) | (0.20) | (0.30) | (0.24) | (0.26) |

\*Rounded off approximation

TABLE II. PERFORMANCE RATINGS: As measured in Muller 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 HOLD      | AMPS AT 0°C HOLD | AMPS AT 20°C TRIP | AMPS AT 60°C HOLD | AMPS AT 60°C TRIP | AMPS AT 60°C HOLD | SECONDS AT 20°C, 20.0A TYP | SECONDS AT 20°C, 20.0A MAX | OHMS AT 20°C MIN     | OHMS AT 20°C MAX | OHMS AT 20°C MIN              | OHMS AT 20°C TYP | WATTS AT 20°C, 30V TYP          | WATTS AT 20°C, 30V MAX |
| 4.2    | 5.1                 | 9.5              | 4.2               | 7.6               | 3.0               | 5.5               | --                         | 6                          | 0.012                | 0.024            | 0.012                         | 0.040            | --                              | 2.9                    |

Agency Recognition:

UL, TUV, CSA

Reference Document:

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





Expertise Applied | Answers Delivered

# PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: SRP420F

DOCUMENT: SCD25985  
REV LETTER: E  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and shall not be used for, any purpose (including, without limitation, military, aerospace, medical, life-saving, life-sustaining or nuclear facility applications, devices intended for surgical implant into the body, or any other application in which the failure or lack of desired operation of the product may result in personal injury, death, or property damage) other than those expressly set forth in applicable Littelfuse product documentation. Warranties granted by Littelfuse shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse documentation. Littelfuse shall not be liable for any claims or damages arising out of products used in applications not expressly intended by Littelfuse as set forth in applicable Littelfuse documentation. The sale and use of Littelfuse products is subject to Littelfuse Terms and Conditions of Sale, unless otherwise agreed by Littelfuse.