

308 Constitution Drive Menlo Park, CA USA www.circuitprotection.com

## PolySwitch® PTC Devices

**Overcurrent Protection Device** 

**PRODUCT: RXEF050** 

DOCUMENT: SCD25219

**REV LETTER: J** 

REV DATE: SEPTEMBER 26, 2014

PAGE NO.: 1 OF 1

## **Specification Status: Released**

**Electrical Rating** 

Voltage: 72 V max (AC or DC) Current: 40 A max (AC or DC)

Insulating Material:

Cured, Flame Retardant Epoxy Polymer meets UL94 V-0 Requirements

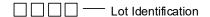
Lead Material:

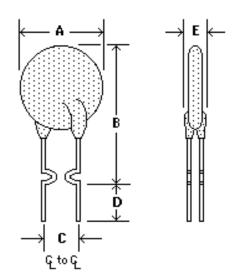
24 AWG Tin Plated Copper

Marking:

Manufacturer's Mark

X50 and Part Identification





## **TABLE I. DIMENSIONS:**

|      | Α   |        | В   |        | С      |        | D      |     | E   |        |
|------|-----|--------|-----|--------|--------|--------|--------|-----|-----|--------|
|      | MIN | MAX    | MIN | MAX    | MIN    | MAX    | MIN    | MAX | MIN | MAX    |
| mm:  |     | 7.9    |     | 13.7   | 4.3    | 5.8    | 7.6    |     |     | 3.0    |
| in*: |     | (0.31) |     | (0.54) | (0.17) | (0.23) | (0.30) |     |     | (0.12) |
|      |     | (0.21) |     |        | 4.3    | (0.33) |        |     |     |        |

<sup>\*</sup>Rounded off approximation

## **TABLE II. PERFORMANCE RATINGS:**

| I HOLD  | CURRENT |      | INITIAL    |      | TIME TO TRIP | ONE HOUR   | TRIPPED- STATE |         |  |  |  |  |
|---------|---------|------|------------|------|--------------|------------|----------------|---------|--|--|--|--|
| RATED   | RATINGS |      | RESISTANCE |      |              | POST-TRIP  | POWER          |         |  |  |  |  |
| CURRENT |         |      | VALUES     |      |              | RESISTANCE | DISSIPATION    |         |  |  |  |  |
|         |         |      |            |      |              | STANDARD   |                |         |  |  |  |  |
|         |         |      |            |      |              | TRIP       |                |         |  |  |  |  |
| AMPERES | AMPERES |      | OHMS       |      | SECONDS AT   | OHMS       | WATTS          | WATTS   |  |  |  |  |
| AT 20°C | AT 20°C |      | AT 20°C    |      | 20°C, 2.5A   | AT 20°C    | AT 20°C        | AT 20°C |  |  |  |  |
| HOLD    | HOLD    | TRIP | MIN        | MAX  | MAX          | MAX        | NOMINAL        | MAX     |  |  |  |  |
| 0.50    | 0.50    | 1.00 | 0.50       | 0.77 | 4.0          | 1.17       | 0.77           | 1.29    |  |  |  |  |

Agency Recognitions: UL, CSA, TUV, CQC

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

ELV Compliant

Pb-Free

Halogen Free\*

Directive 2002/95/EC Compliant Directive 2000/53/EC Compliant





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<sup>\*</sup> Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm.