

**Tyco/Electronics**  
**Raychem Circuit Protection**  
 308 Constitution Drive  
 Menlo Park, CA 94025-1164  
 Phone: 800-227-4856  
 Fax: 800-227-4866

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

**PRODUCT: RXE185**

DOCUMENT: SCD 21872  
 PCN: 385417  
 REV LETTER: H  
 REV DATE: AUGUST 22, 2001  
 PAGE NO.: 1 OF 1

**Specification Status: RELEASED**

**Electrical Rating**

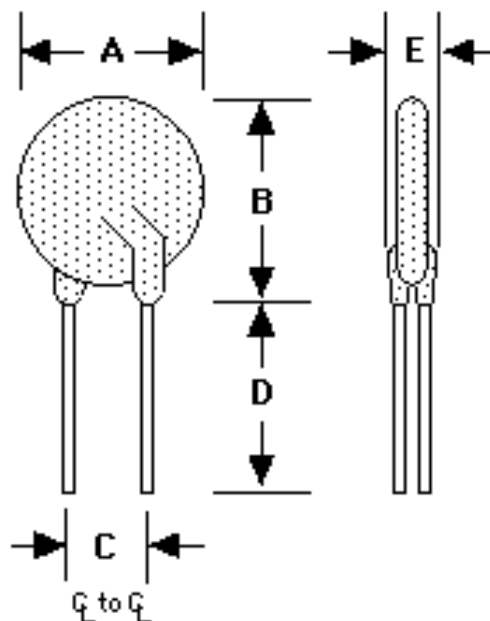
**Voltage: 72V MAX**  
**Current: 40A MAX**

Insulating Material:  
 Cured, Flame Retarded Epoxy Polymer  
 meets UL94 V-0 Requirements

Lead Material:  
 20 AWG Tin Lead Plated Copper

**Marking:**

- ┌── Raychem Logo and Voltage
- ⊗ 72
- X 185 ─ Part Identification
- ─ Lot Identification (can be on back)



**TABLE I. DIMENSIONS:**

|      | A   |        | B   |        | C      |        | D      |     | E   |        |
|------|-----|--------|-----|--------|--------|--------|--------|-----|-----|--------|
|      | MIN | MAX    | MIN | MAX    | MIN    | MAX    | MIN    | MAX | MIN | MAX    |
| mm:  | --  | 17.5   | --  | 22.4   | 4.3    | 5.8    | 7.6    | --  | --  | 3.0    |
| in*: | --  | (0.69) | --  | (0.88) | (0.17) | (0.23) | (0.30) | --  | --  | (0.12) |

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

| I <sub>H</sub><br>RATED<br>CURRENT | CURRENT RATINGS   |      |                    |      |                    |      | TIME TO<br>TRIP       | INITIAL<br>RESISTANCE<br>VALUES |      | ONE-HOUR<br>POST-TRIP<br>RESISTANCE<br>STANDARD<br>TRIP | TRIPPED-<br>STATE<br>POWER<br>DISSIPATION |
|------------------------------------|-------------------|------|--------------------|------|--------------------|------|-----------------------|---------------------------------|------|---|---|
|                                    | AMPERES<br>AT 0°C |      | AMPERES<br>AT 20°C |      | AMPERES<br>AT 60°C |      |                       | OHMS<br>AT 20°C                 |      |   |   |
| 20°C<br>HOLD                       | HOLD              | TRIP | HOLD               | TRIP | HOLD               | TRIP | 20°C,<br>9.25A<br>MAX | MIN                             | MAX  | AT 20°C<br>MAX  | WATTS AT<br>20°C<br>NOMINAL               |
| 1.85                               | 2.22              | 4.44 | 1.85               | 3.70 | 1.20               | 2.40 | 12.6                  | 0.08                            | 0.12 | 0.19  | 2.1                                       |

Recognitions: UL, CSA and TUV approved.  
 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.

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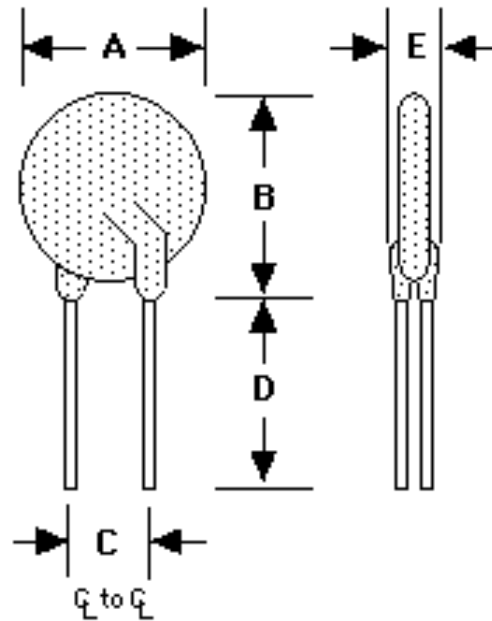
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|------------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------|----------------------------------|------------------------|---|---|
|                                    | AMPERES<br>AT 0°C<br>HOLD | AMPERES<br>AT 20°C<br>HOLD | AMPERES<br>AT 20°C<br>TRIP | AMPERES<br>AT 60°C<br>HOLD | AMPERES<br>AT 60°C<br>TRIP | AMPERES<br>AT 60°C<br>TRIP |                 | SECONDS AT<br>20°C, 9.25A<br>MAX | OHMS<br>AT 20°C<br>MIN |   |   |
| 1.85                               | 2.22                      | 4.44                       | 1.85                       | 3.70                       | 1.20                       | 2.40                       | 12.6            | 0.08                             | 0.12                   | 0.19  | 2.1                                       |

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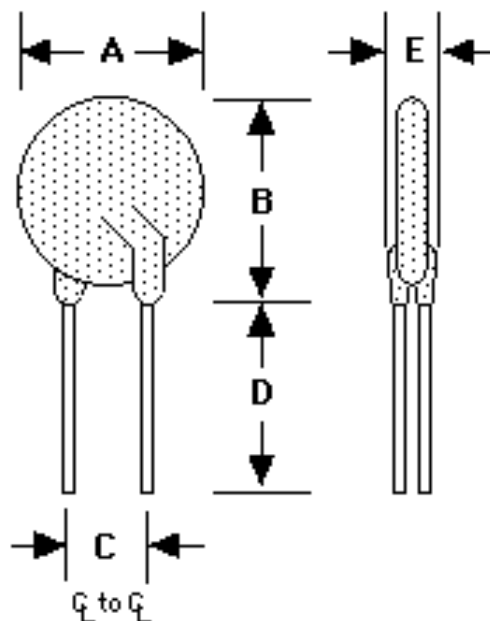
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|------------------------------------|----------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------|----------------------------------|------------------------|---|---|
|                                    | AMPERES<br>AT 20°C<br>HOLD | AMPERES<br>AT 0°C<br>HOLD | AMPERES<br>AT 20°C<br>TRIP | AMPERES<br>AT 60°C<br>HOLD | AMPERES<br>AT 60°C<br>TRIP | AMPERES<br>AT 60°C<br>TRIP |                 | SECONDS AT<br>20°C, 9.25A<br>MAX | OHMS<br>AT 20°C<br>MIN |   |   |
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