

**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: RXE050**

DOCUMENT: SCD 21866  
 PCN: 037039  
 REV LETTER: G  
 REV DATE: AUGUST 22, 2001  
 PAGE NO.: 1 OF 1

**Specification Status: RELEASED**

**Electrical Rating**

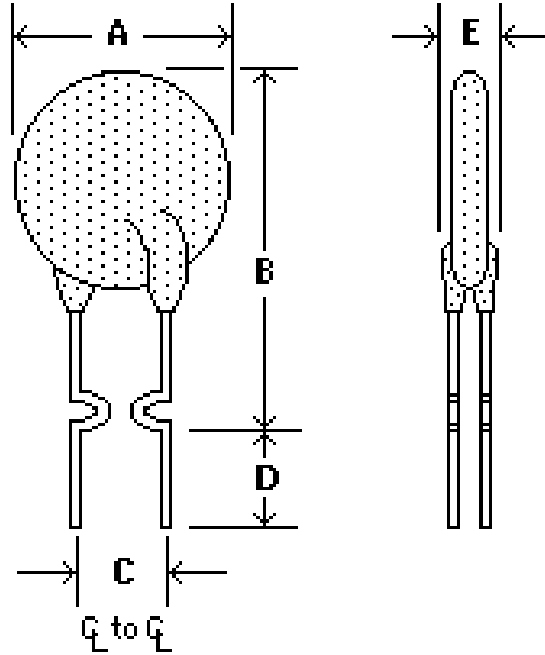
**Voltage: 72V MAX**  
**Current: 40A MAX**

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

Lead Material:  
 24 AWG Tin Lead Plated Copper

Marking:

- ┌───┐ Raychem Logo and Voltage
- ⊗ 72
- X 050 ─── 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:  | --  | 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) |

\*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>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, 2.5A<br>MAX | OHMS<br>AT 20°C<br>MIN |   |   |
| .50                                | .60                     | 1.20                      | .50                        | 1.00                       | .33                        | .66                        | 4.0             | .50                             | .77                    | 1.17  | .77                                       |

Recognitions: UL, CSA and TUV approved.  
 Approved by UL as a current limiting impedance, per the 1996 NEC, Tables 11 (c) and 11 (b).  
 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.