

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

PRODUCT: RUSBF090

DOCUMENT: SCD25242  
REV LETTER: G  
REV DATE: MARCH 12, 2013  
PAGE NO.: 1 OF 1

**Specification Status: Released**

**Electrical Rating**

Voltage: 16V<sub>DC</sub> MAX

Current: 40A MAX

**Insulating Material:**

Cured Flame Retardant Epoxy Polymer meets  
UL 94-V-O Requirements

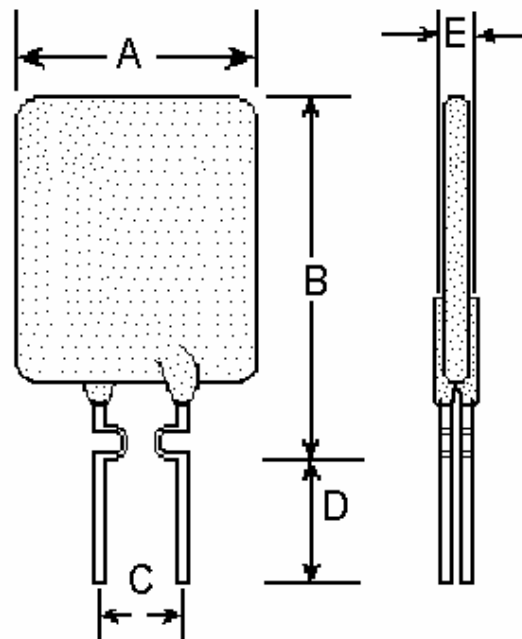
**Lead Material:**

24 AWG Tin Plated Copper Clad Steel

**Marking:**

— Manufacturer's Mark  
XX R90 and Part Identification

□ □ □ □ — Lot Identification



**TABLE I. DIMENSIONS:**

|      | A   |        | B   |        | C      |        | D      |     | E   |        |
|------|-----|--------|-----|--------|--------|--------|--------|-----|-----|--------|
|      | MIN | MAX    | MIN | MAX    | MIN    | MAX    | MIN    | MAX | MIN | MAX    |
| mm:  | --  | 7.4    | --  | 12.2   | 4.3    | 5.8    | 7.6    | --  | --  | 3.1    |
| in*: | --  | (0.29) | --  | (0.48) | (0.17) | (0.23) | (0.30) | --  | --  | (0.12) |

**TABLE II. PERFORMANCE RATINGS :**

| I HOLD<br>RATED<br>CURRENT | CURRENT<br>RATINGS         |      | INITIAL RESISTANCE<br>VALUES |     |     | ONE HOUR<br>POST-TRIP<br>RESISTANCE<br>STANDARD TRIP | TIME TO TRIP<br>@ 8A | TRIPPED- STATE<br>POWER<br>DISSIPATION |
|----------------------------|----------------------------|------|------------------------------|-----|-----|------------------------------------------------------|----------------------|----------------------------------------|
| AMPERES<br>AT 20°C<br>HOLD | AMPERES<br>AT 20°C<br>HOLD | TRIP | OHMS<br>AT 20°C              |     |     | OHMS<br>AT 20°C<br>MAX                               | SECONDS AT<br>20°C   | WATTS<br>AT 20°C                       |
| 0.90                       | 0.90                       | 1.80 | MIN                          | TYP | MAX | 0.18                                                 | 1.2                  | 0.6                                    |

**Recognitions:**

**Reference Documents:**

**Precedence:**

**Effectivity:**

**CAUTION:**

UL, CSA, TUV

PS300

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

ELV Compliant

Pb-Free

Halogen Free\*

Directive 2002/95/EC  
Compliant

Directive 2000/53/EC  
Compliant



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