

## Specification Status: Released

### Electrical Rating

**Voltage: 16VDC MAX**

**Current: 100A MAX**

### Insulating Material:

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

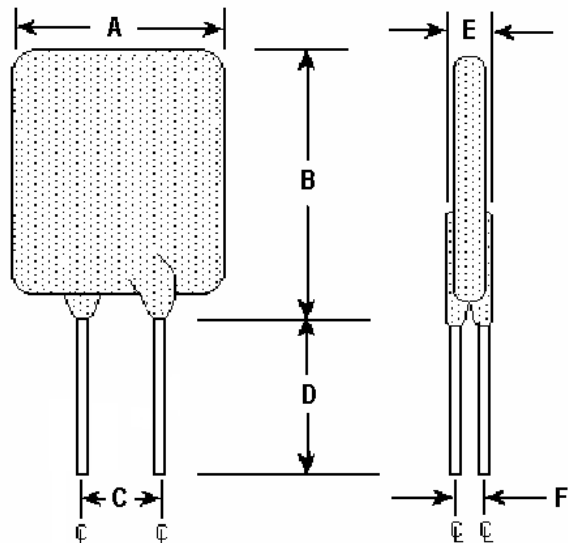
### Lead Material:

18 AWG Tin Plated Copper  
(1.0mm [0.040in.] nom. diameter)

### Marking:

— Manufacturer's Mark  
XX L9 and Part Identification

□□□□ — Lot Identification



**TABLE I. DIMENSIONS:**

|      | A   |        | B   |        | C      |        | D      |     | E   |        | F      |
|------|-----|--------|-----|--------|--------|--------|--------|-----|-----|--------|--------|
|      | MIN | MAX    | MIN | MAX    | MIN    | MAX    | MIN    | MAX | MIN | MAX    | TYP    |
| mm:  | --  | 14.4   | --  | 21.4   | 9.4    | 10.9   | 7.6    | --  | --  | 3.6    | 1.4    |
| in*: | --  | (0.57) | --  | (0.84) | (0.37) | (0.43) | (0.30) | --  | --  | (0.14) | (0.06) |

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

| CURRENT RATINGS   |      | TIME TO TRIP | INITIAL RESISTANCE VALUES |                  | R <sub>1</sub> MAX | TRIPPED-STATE POWER DISSIPATION |
|-------------------|------|--------------|---------------------------|------------------|--------------------|---------------------------------|
| AMPS AT 25°C HOLD | TRIP |              | OHMS AT 25°C MIN          | OHMS AT 25°C MAX |                    |                                 |
| 9.0               | 18.0 | 9.0          | 0.0046                    | 0.0075           | 0.0098             | 5.0                             |

### Agency Recognitions:

UL

### Reference Documents:

PS300, PS400 (reference for R<sub>1</sub> MAX)

### 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<sup>+</sup>**

Directive 2011/65/EU  
Compliant

Directive 2000/53/EC  
Compliant



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

**TABLE III. AUTOMOTIVE SPECIFIC STRESS TESTS AND TEST CONDITIONS:**

| <b>ELECTRICAL STRESS TESTS</b>         | <b>TEST CONDITIONS (see note 2)</b> |
|----------------------------------------|-------------------------------------|
| ESD Voltage Withstand (see note 1)     | 25kV                                |
| Short Circuit Fault Current Durability | 25 cycles, 16V, 200A                |
| Fault Current Durability               | 350 cycles, 16V/100A                |
| End-of-life Mode Verification          | 1750 cycles, 16V/100A               |
| Jump Start Endurance (see note 1)      | 3 cycles, 26V, 1 minute duration    |
| Load Dump Endurance (see note 1)       | 10 cycles, 86.5V                    |

Note 1: The PolySwitch devices are tested in series with a load resistance and the voltages specified in the test conditions are shared between the PolySwitch device and the load resistance as specified in PS400.

Note 2: Please refer to Appendix A of PS400 for the detailed test procedures

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