

**Specification Status: Released**

**Electrical Rating**

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

Insulating Material:

Cured, Flame Retardant Epoxy Polymer

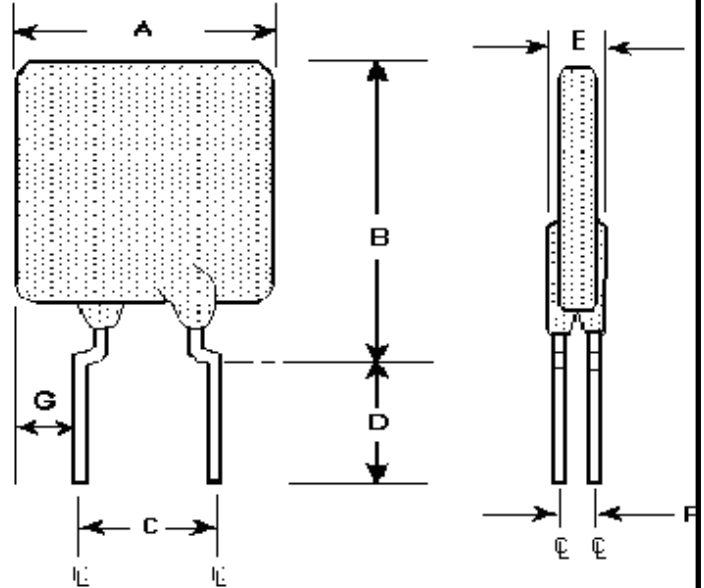
Lead Material:

20 AWG Tin Plated Copper  
(0.8 mm [0.032] nom. diameter)

Part Marking:

— Manufacturer's Mark  
XX G9 and Part Identification

□□□□ — Lot Identification



**TABLE I. INSTALLATION ENVELOPE DIMENSIONS:**

|      | A   |        | B   |        | C      |        | D      |     | E   |        | F      | G   |        |
|------|-----|--------|-----|--------|--------|--------|--------|-----|-----|--------|--------|-----|--------|
|      | MIN | MAX    | MIN | MAX    | MIN    | MAX    | MIN    | MAX | MIN | MAX    | TYP    | MIN | MAX    |
| mm:  | --  | 14.0   | --  | 23.0   | 4.3    | 5.8    | 7.6    | --  | --  | 3.0    | 1.2    | --  | 5.69   |
| in*: | --  | (0.55) | --  | (0.91) | (0.17) | (0.23) | (0.30) | --  | --  | (0.12) | (0.05) | --  | (0.22) |

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

| CURRENT RATINGS    |                    |      | TIME TO TRIP                 | INITIAL RESISTANCE        |        | R <sub>1</sub> MAX<br>1 HR. POST TRIP<br>RESISTANCE<br>STANDARD TRIP | R <sub>A</sub> MAX | TRIPPED-STATE<br>POWER<br>DISSIPATION |
|--------------------|--------------------|------|------------------------------|---------------------------|--------|----------------------------------------------------------------------|--------------------|---------------------------------------|
| HOLD AT            | HOLD AT            | TRIP | SECONDS AT 25°C, 45 A<br>MAX | OHMS AT 25°C<br>MIN   MAX |        | OHMS AT 25°C                                                         | OHMS AT 25°C       | WATTS AT 25°C<br>TYP                  |
| R <sub>1</sub> MAX | R <sub>A</sub> MAX |      |                              |                           |        |                                                                      |                    |                                       |
| 9.0                | 8.6                | 16.5 | 6.0                          | 0.0041                    | 0.0091 | 0.0135                                                               | 0.0140             | 3.4                                   |

Reference

Documents: PS400, PS300 (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\*

Directive 2002/95/EC  
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:**

| ELECTRICAL STRESS TESTS                | TEST CONDITIONS (see note 2)     |
|----------------------------------------|----------------------------------|
| ESD Voltage Withstand<br>(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<br>(see note 1)   | 3 cycles, 26V, 1 minute duration |
| Load Dump Endurance<br>(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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