

**Specification Status: Released**

**Electrical Rating**

**Voltage: 32V<sub>DC</sub> MAX**

**Current: 100A MAX**

Insulating Material:

Cured, Flame Retardant Epoxy Polymer

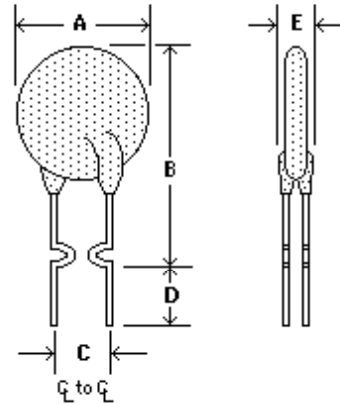
Lead Material:

24 AWG Tin Plated Copper Clad Steel

Part Marking:

— Manufacturer's Mark  
⊗ E0.5 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    | --  | 12.7   | 4.3    | 5.8    | 7.6    | --  | --  | 3.3    |
| in*: | --  | (0.29) | --  | (0.50) | (0.17) | (0.23) | (0.30) | --  | --  | (0.13) |

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

| I HOLD RATED CURRENT | CURRENT RATINGS          |      | INITIAL RESISTANCE VALUES |      | TIME TO TRIP               | RaMax            | TRIPPED-STATE POWER DISSIPATION |
|----------------------|--------------------------|------|---------------------------|------|----------------------------|------------------|---------------------------------|
| AMPS AT 25°C HOLD    | AMPS AT 25°C HOLD   TRIP |      | OHMS AT 25°C MIN   MAX    |      | SECONDS AT 25°C, 2.5 A MAX | OHMS AT 25°C MAX | WATTS AT 25°C TYP               |
| 0.50                 | 0.50                     | 1.00 | 0.35                      | 0.78 | 3.0                        | 1.10             | 0.9                             |

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, 32V, 200A             |
| Fault Current Durability               | 350 cycles, 32V/100A             |
| End-of-life Mode Verification          | 1750 cycles, 32V/100A            |
| Jump Start Endurance<br>(see note 1)   | 3 cycles, 48V, 2 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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