

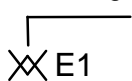
Specification Status: Released


Electrical Rating

Voltage: 32V_{DC} 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
 and Part Identification

 Lot Identification

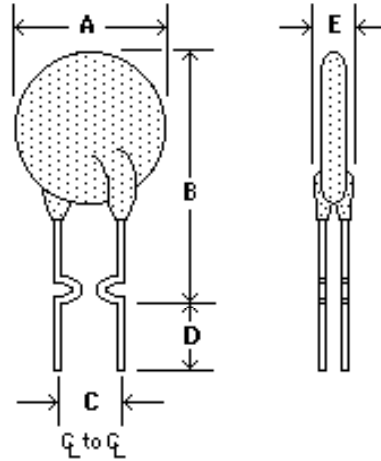


TABLE I. DIMENSIONS:

| | A | | B | | C | | D | | E | |
|------|-----|--------|-----|--------|--------|--------|--------|-----|-----|--------|
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX |
| mm: | -- | 9.7 | -- | 13.6 | 4.3 | 5.8 | 7.6 | -- | -- | 3.0 |
| in*: | -- | (0.38) | -- | (0.54) | (0.17) | (0.23) | (0.30) | -- | -- | (0.12) |

*Rounded off approximation

TABLE II. PERFORMANCE RATINGS:

| I HOLD RATED CURRENT | CURRENT RATINGS | | INITIAL RESISTANCE VALUES | | TIME TO TRIP | R _a MAX | TRIPPED-STATE POWER DISSIPATION |
|----------------------|-------------------|-------------------|---------------------------|------------------|----------------------------|--------------------|---------------------------------|
| AMPS AT 25°C HOLD | AMPS AT 25°C HOLD | AMPS AT 25°C TRIP | OHMS AT 25°C MIN | OHMS AT 25°C MAX | SECONDS AT 25°C, 5.0 A MAX | OHMS AT 25°C MAX | WATTS AT 25°C TYP |
| 1.0 | 1.0 | 1.9 | 0.15 | 0.30 | 6.2 | 0.43 | 1.4 |

Reference Documents: PS400, PS300 (reference for R₁ 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 (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 (see note 1) | 3 cycles, 48V, 2-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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