

## Specification Status: Released

### Electrical Rating

**Voltage: 16VDC MAX**

**Current: 100A MAX**

### Insulating Material:

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

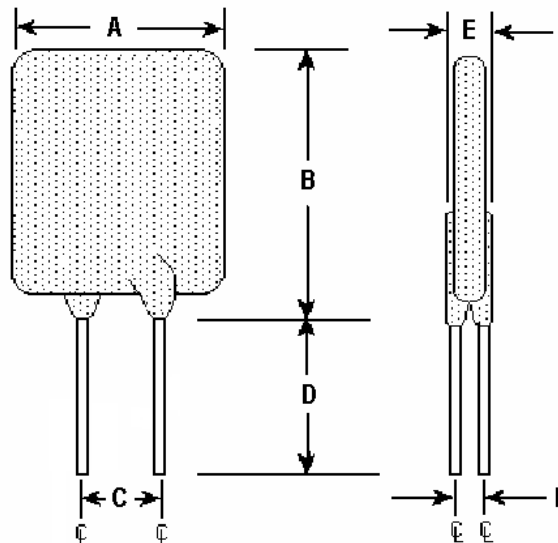
### Lead Material:

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

### Marking:

— Manufacturer's Mark  
XX L8 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:	--	12.8	--	20.4	4.3	5.8	7.6	--	--	3.6	1.4
in*:	--	(0.50)	--	(0.80)	(0.17)	(0.23)	(0.30)	--	--	(0.14)	(0.06)

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

CURRENT RATINGS		TIME TO TRIP SECONDS AT 25°C, 40.0A MAX	INITIAL RESISTANCE VALUES OHMS AT 25°C		R <sub>1</sub> MAX OHMS AT 25°C	TRIPPED-STATE POWER DISSIPATION WATTS AT 25°C 16V TYP
HOLD	TRIP		MIN	MAX		
8.0	16.0	8.0	0.0060	0.0105	0.0145	4.3

### 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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