

**Specification Status: Released**

**Electrical Rating**

Voltage: 16V MAX  
Current: 100A MAX

**Insulating Material:**

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

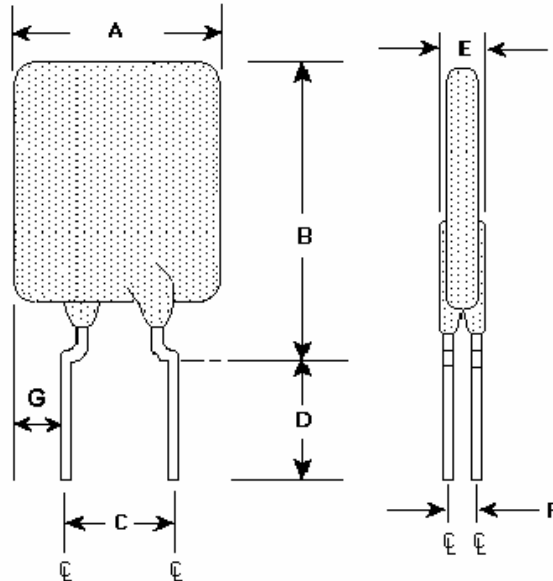
**Lead Material:**

20 AWG Tin Plated Copper

**Part Marking:**

Manufacturer's Mark  
X H9 and Part Identification

Lot Identification



**TABLE I. DIMENSIONS:**

	A		B		C		D		E		F	G	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP	MIN	MAX
mm:	--	16.5	--	25.7	4.3	5.8	7.6	--	--	3.0	1.2		
in*:	--	(0.65)	--	(1.01)	(0.17)	(0.23)	(0.30)	--	--	(0.12)	(0.05)		

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

I HOLD RATED CURRENT	CURRENT RATINGS		TIME TO TRIP	INITIAL RESISTANCE VALUES		R <sub>a</sub> MAX	NOMINAL TRIPPED POWER DISSIPATION
AMPS AT 25°C HOLD	AMPS AT 25°C HOLD	TRIP	SECONDS AT 25°C, 45A MAX	OHMS AT 25°C MIN	OHMS AT 25°C MAX	OHMS AT 25°C MAX	WATTS AT 25°C 16V TYP
9.0	9.0	18.5	11.5	0.0061	0.012	0.0170	5.0

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 (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

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