

**Specification Status: Released**

**Electrical Rating**

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

**Insulating Material:**

Cured, Flame Retardant Epoxy Polymer

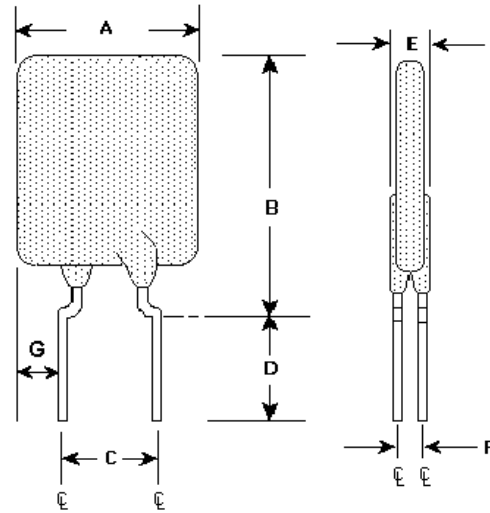
**Lead Material:**

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

**Part Marking:**

— Manufacturer's Mark  
XX H4.5 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:	--	10.4	--	15.6	4.3	5.8	7.6	--	--	3.0	1.2	--	3.94
in*:	--	(0.41)	--	(0.61)	(0.17)	(0.23)	(0.30)	--	--	(0.12)	(0.05)	--	(0.16)

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

CURRENT RATINGS		TIME TO TRIP	RESISTANCE		R <sub>a</sub> MAX	TRIPPED-STATE POWER DISSIPATION
AMPS AT 25°C HOLD	AMPS AT 25°C TRIP	SECONDS AT 25°C, 22.5 A MAX	OHMS AT 25°C MIN	OHMS AT 25°C MAX	OHMS AT 25°C	WATTS AT 25°C TYP
4.5	8.7	4.0	0.017	.036	0.054	3.6

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:**

<b>ELECTRICAL STRESS TESTS</b>	<b>TEST CONDITIONS (see note 2)</b>
<b>ESD Voltage Withstand (see note 1)</b>	<b>25kV</b>
<b>Short Circuit Fault Current Durability</b>	<b>25 cycles, 16V, 200A</b>
<b>Fault Current Durability</b>	<b>350 cycles, 16V/100A</b>
<b>End-of-life Mode Verification</b>	<b>1750 cycles, 16V/100A</b>
<b>Jump Start Endurance (see note 1)</b>	<b>3 cycles, 26V, 1 minute duration</b>
<b>Load Dump Endurance (see note 1)</b>	<b>10 cycles, 86.5V</b>

**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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