

**Specification Status: Released**
**Electrical Rating**

 Voltage: 16V<sub>DC</sub> MAX  
 Current: 100A MAX

**Insulating Material:**

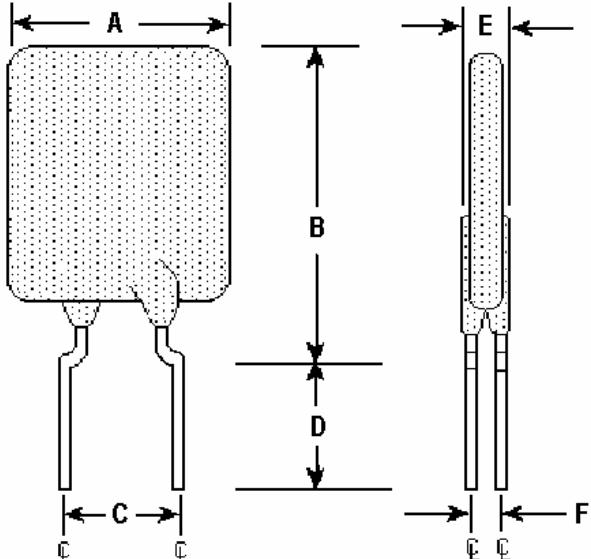
 Cured, Flame Retardant Epoxy Polymer  
 meets UL94 V-0 Requirements

**Lead Material:**

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

**Marking:**

- XX 16 — Manufacturer's Mark and Voltage
- HF11 — Part Identification
- — Lot Identification (can be on back)


**TABLE I. DIMENSIONS:**

mm: in*:	A		B		C		D		E		F	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP	
	--	21.0	--	26.1	9.4	10.9	7.6	--	--	3.0	1.2	
	--	(0.83)	--	(1.03)	(0.37)	(0.43)	(0.3)	--	--	(0.12)	(0.05)	

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

CURRENT RATINGS		TIME TO TRIP		INITIAL RESISTANCE VALUES		R <sub>a</sub> MAX	TRIPPED-STATE POWER DISSIPATION
AMPS AT 25°C HOLD	SECONDS AT 25°C, 55A MAX	OHMS AT 25°C MIN	OHMS AT 25°C MAX	WATTS AT 25°C 16V TYP			
11.0	21.2	11.0	0.0048	0.009	0.013	5.5	

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

 Directive 2002/95/EC  
 Compliant

 Directive 2000/53/EC  
 Compliant


**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 for the detailed test procedures.