

## Specification Status: RELEASED

### Electrical Rating

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

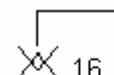

### Insulating Material:

Cured, Flame Retardant Epoxy  
Polymer

### Lead Material:

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

### Part Marking:

 Manufacturer's Mark and Voltage  
 HF13 — Part Identification  
 Lot Identification (can be on back)

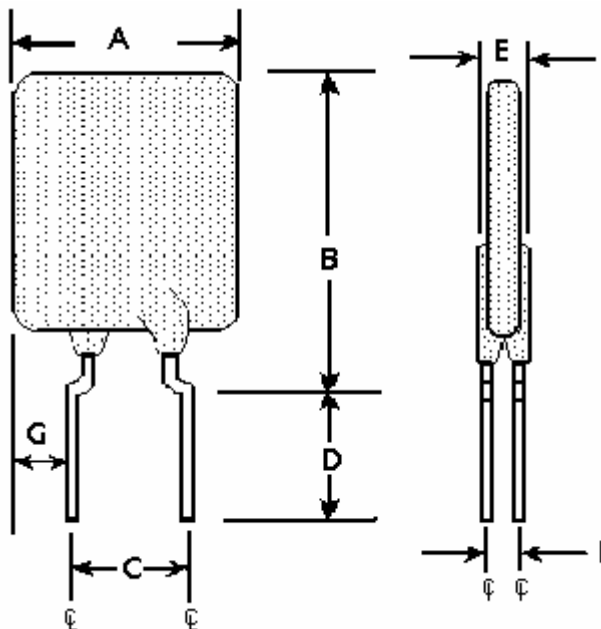


TABLE I. INSTALLATION ENVELOPE DIMENSIONS:

	A		B		C		D		E		F	G	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP	MIN	MAX
mm:	--	23.5	--	28.7	9.4	10.9	7.6	--	--	3.5	1.4	--	7.82
in*:	--	(0.93)	--	(1.13)	(0.37)	(0.43)	(0.30)	--	--	(0.14)	(0.06)	--	(0.31)

\*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		SECONDS AT 25°C, 65 A	OHMS AT 25°C		OHMS AT 25°C	WATTS AT 25°C
HOLD	TRIP	MAX	MIN	MAX		TYP
13.0	27.0	15.0	.0034	.0069	0.010	6.9

### 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.



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**PolySwitch®**  
**PTC Devices**  
**Overcurrent Protection Device**

*Raychem Circuit Protection Products*

**PRODUCT: AHRF1300**

DOCUMENT: SCD 25302  
PCN: C42424  
REV LETTER: C  
REV DATE: MAY 8, 2007  
PAGE NO.: 2 OF 2

**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