

Specification Status: Released

Electrical Rating

Voltage: 16V_{DC} MAX

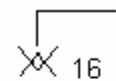
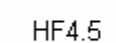

Insulating Material:

Cured, Flame Retardant Epoxy Polymer

Lead Material:

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

Part Marking:

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

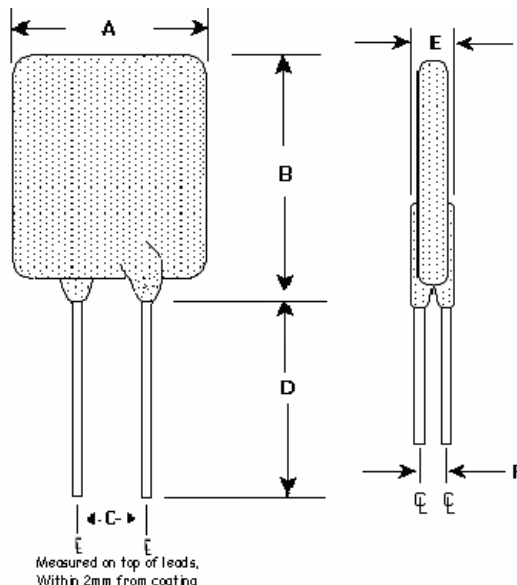


TABLE I. INSTALLATION ENVELOPE DIMENSIONS:

	A		B		C		D		E		F
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP
mm:	--	10.4	--	14.3	4.3	5.8	25.4	--	--	3.0	1.2
in*:	--	(0.41)	--	(0.56)	(0.17)	(0.23)	(1.0)	--	--	(0.12)	(0.05)

*Rounded off approximation

TABLE II. PERFORMANCE RATINGS:

CURRENT RATINGS		TIME TO TRIP		RESISTANCE		R _a MAX	TRIPPED-STATE POWER DISSIPATION
AMPS AT 25°C		SECONDS AT 25°C, 22.5 A		OHMS AT 25°C		OHMS AT 25°C	
HOLD	TRIP	MAX		MIN	MAX		
4.5	8.7	4.0		0.017	0.036	0.054	WATTS AT 25°C TYP
							3.6

Reference Documents:

Precedence:

Effectivity:

CAUTION:

PS400, PS300 (reference for R₁ MAX)

This specification takes precedence over documents referenced herein.

Reference documents shall be the issue in effect on the date of invitation for bid.

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





308 Constitution Drive
Menlo Park, CA 94025-1164
Phone: 800-227-4856
www.circuitprotection.com

PolySwitch®
PTC Devices
Overcurrent Protection Device
Raychem Circuit Protection Products

PRODUCT: AHRF450S-1

DOCUMENT: SCD 26368
PCN: RF0190
REV LETTER: B
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