

Menlo Park, CA 94025-1164

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: AHRF1100

DOCUMENT: SCD 26639

PCN: RF0207 **REV LETTER: C**

REV DATE: MAY 8, 2007

PAGE NO.: 1 OF 2

Raychem Circuit Protection Products

Specification Status: Released

Electrical Rating

308 Constitution Drive

Phone: 800-227-4856

www.circuitprotection.com

Voltage: 16V_{DC} 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:

Manufacturer's Mark and Voltage XX 16

HF11 Part Identification

Lot Identification (can be on back)

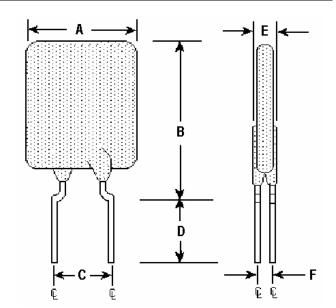


TABLE I. DIMENSIONS:

	Α		В		С		D		E		F
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP
mm:	1	21.0	ı	26.1	9.4	10.9	7.6	ŀ	ı	3.0	1.2
in*:		(0.83)		(1.03)	(0.37)	(0.43)	(0.3)			(0.12)	(0.05)

^{*}Rounded off approximation

TABLE II. PERFORMANCE RATINGS:

CURRENT		TIME TO	INITIAL		R _{a MAX}	TRIPPED-
RATINGS		TRIP	RESISTANCE		G 1111 D 1	STATE
			VALUES			POWER
						DISSIPATION
AMPS		SECONDS	OHMS		OHMS	WATTS AT
AT 25°C		AT 25°C, 55A	AT 25°C		AT 25°C	25°C 16V
HOLD	TRIP	MAX	MIN	MAX	MAX	TYP
11.0	21.2	11.0	0.0048	0.009	0.013	5.5

Reference Documents: PS400, PS300 (reference for R_{1 MAX})

Precedence: This specification takes precedence over documents referenced herein.

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

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



© 2006, 2007 Tyco Electronics Corporation. All rights reserved



Menlo Park, CA 94025-1164

308 Constitution Drive

Phone: 800-227-4856

www.circuitprotection.com

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: AHRF1100

DOCUMENT: SCD 26639

PCN: RF0207 REV LETTER: C

REV DATE: MAY 8, 2007 PAGE NO.: 2 OF 2

Raychem Circuit Protection Products

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.