

Raychem Circuit Protection

308 Constitution Drive
 Menlo Park, CA 94025-1164
 800-227-4856
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Raychem

PolySwitch®
PTC Devices
 Resettable Fuse

PRODUCT: AHR1000S

DOCUMENT: SCD 24611
 PCN: 644234
 REV LETTER: A
 REV DATE: JULY 24, 2000
 PAGE NO.: 1 OF 2

Specification Status: RELEASED

Electrical Rating

Voltage: 16V_{DC} MAX

INSULATING MATERIAL:

Cured, Flame Retarded Epoxy Polymer

LEAD MATERIAL:

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

PART MARKING:

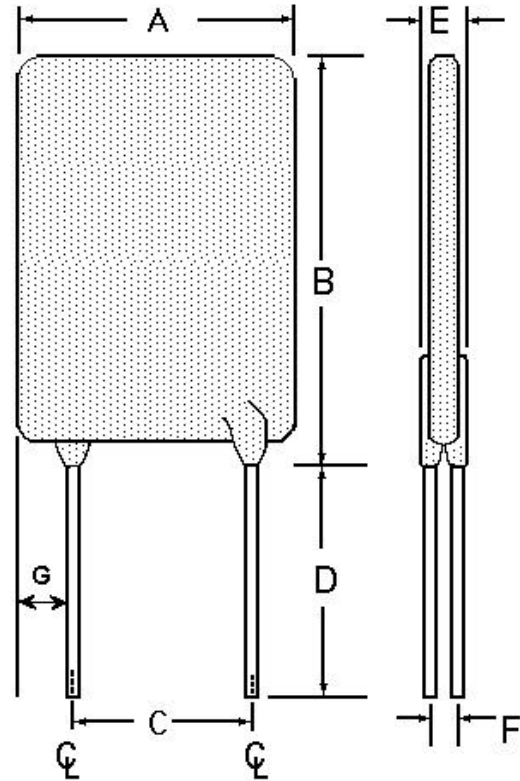
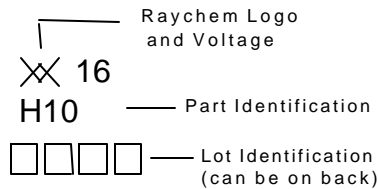


TABLE I. INSTALLATION ENVELOPE DIMENSIONS:

	A		B		C		D		E		F	G	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP	MIN	MAX
mm:	--	17.5	--	26.5	9.4	10.9	7.6	--	--	3.0	1.2	--	4.19
in*:	--	(0.69)	--	(1.04)	(0.37)	(0.43)	(0.30)	--	--	(0.12)	(0.05)	--	(0.165)

*Rounded off approximation

TABLE II. PERFORMANCE RATINGS:

CURRENT RATINGS		TIME TO TRIP	RESISTANCE		R _a MAX	TRIPPED-STATE POWER DISSIPATION
AMPS AT 25°C HOLD	AMPS AT 25°C TRIP	SECONDS AT 25°C, 50 A MAX	OHMS AT 25°C		OHMS AT 25°C	WATTS AT 25°C TYP
			MIN	MAX		
10.0	20.5	10.5	.0051	.0105	0.015	5.3

Reference Documents:
 Precedence:

PS400, PS300 (reference for R₁ MAX)
 This specification takes precedence over documents referenced herein.

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Effectivity:
 CAUTION:

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.

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