

Raychem Circuit Protection

309 Constitution Drive
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R
Circuit Protection®
PTC Devices
Resettable Fuse

PRODUCT: AHR650

DOCUMENT: SCD 24510
PCN: 068486-000
REV LETTER: A
REV DATE: MARCH 29, 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:

- Raychem Logo and Voltage
- XX 16 — Part Identification
- H6.5 — Part Identification
- — Lot Identification (can be on back)

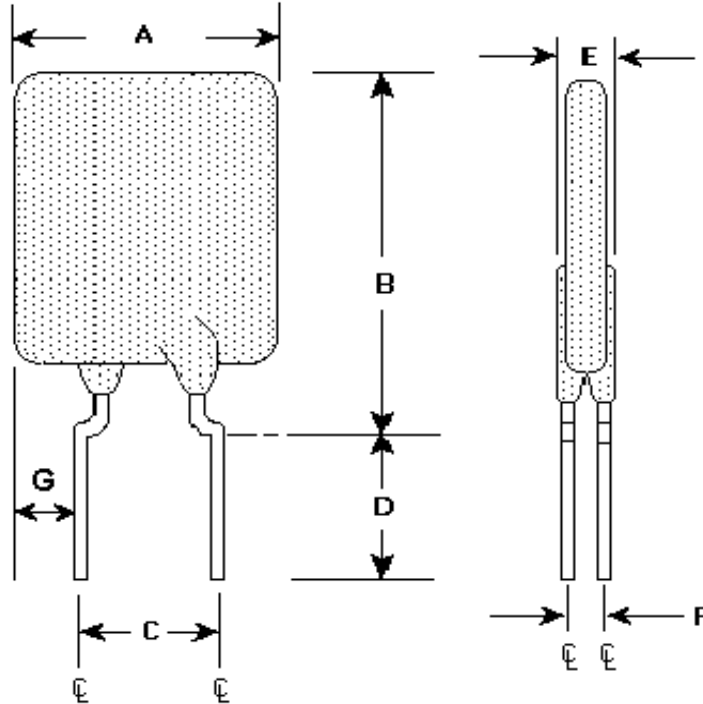


TABLE I. INSTALLATION ENVELOPE DIMENSIONS:

	A		B		C		D		E		F	G	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP	MIN	MAX
mm:	--	12.7	--	22.2	4.3	5.8	7.6	--	--	3.0	1.2	--	5.08
in*:	--	(0.50)	--	(0.88)	(0.17)	(0.23)	(0.30)	--	--	(0.12)	(0.05)	--	(0.20)

*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, 32.5 A MAX	OHMS AT 25°C MIN	OHMS AT 25°C MAX	OHMS AT 25°C	WATTS AT 25°C TYP
6.5	13.7	7.0	0.009	0.018	0.026	4.3

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Reference Documents: PS400, PS300 (reference for R_{1 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.

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