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PolySwitch®
PTC Devices
Overcurrent Protection Device

PRODUCT: AHRF1400

DOCUMENT: SCD 26640
PCN: RF0208
REV LETTER: C
REV DATE: MAY 8, 2007
PAGE NO.: 1 OF 2

Raychem Circuit Protection Products

Specification Status: Released

Electrical Rating

Voltage: 16V_{DC} MAX
Current: 100A MAX

Insulating Material:
Cured, Flame Retardant Epoxy Polymer
meets UL94 V-0 Requirements

Lead Material:
18 AWG Tin Plated Copper
(1.0 mm [0.04] nom. diameter)

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

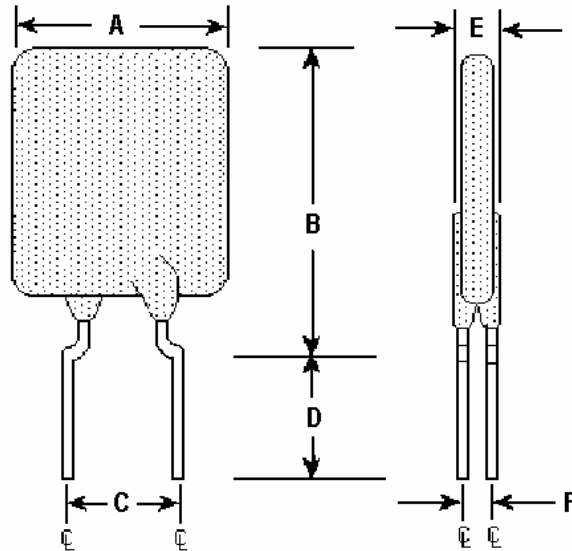


TABLE I. DIMENSIONS:

	A		B		C		D		E		F
mm:	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP
	--	23.5	--	28.6	9.4	10.9	7.6	--	--	3.6	1.4
in*:	--	(0.93)	--	(1.13)	(0.37)	(0.43)	(0.3)	--	--	(0.14)	(0.06)

*Rounded off approximation

TABLE II. PERFORMANCE RATINGS:

CURRENT RATINGS		TIME TO TRIP	INITIAL RESISTANCE VALUES		R _a MAX	TRIPPED-STATE POWER DISSIPATION
AMPS AT 25°C HOLD	AMPS AT 25°C TRIP	SECONDS AT 25°C, 70 A MAX	OHMS AT 25°C MIN	OHMS AT 25°C MAX	OHMS AT 25°C MAX	WATTS AT 25°C 16V TYP
14.0	28.3	15.5	0.0029	0.006	0.009	6.9

Reference Documents: PS400, PS300 (reference for R₁ 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.

Materials Information

ROHS Compliant

ELV Compliant

Pb-Free





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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.