Tyco/Electronics
Raychem Circuit Protection
308 Constitution Drive
Menlo Park, CA 94025-1164
800-227-4856
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Polyswitch® PTC Devices

Overcurrent Protection Device

PRODUCT: AHR750
DOCUMENT: SCD 24387
PCN: 167181
REV LETTER: G
REV DATE: MARCH 22, 2001
PAGE NO.: 1 OF 2

Specification Status: RELEASED

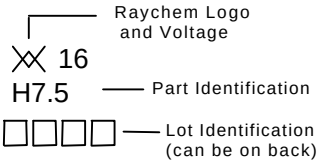
Electrical Rating

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:



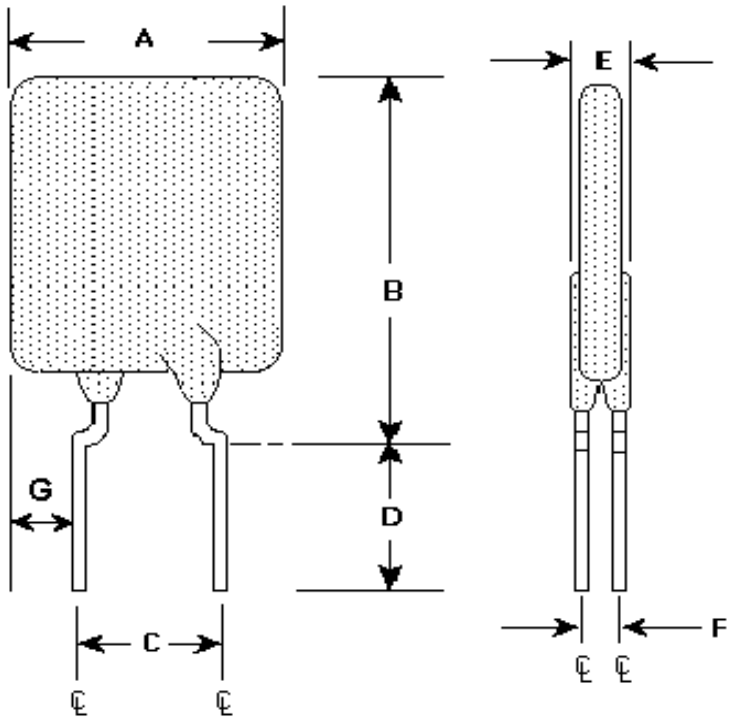


TABLE I. INSTALLATION ENVELOPE DIMENSIONS:

	A		B		C		D		E		F	G	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP	MIN	MAX
mm:	--	14.0	--	23.5	4.3	5.8	7.6	--	--	3.0	1.2	--	5.69
in*:	--	(0.55)	--	(0.93)	(0.17)	(0.23)	(0.30)	--	--	(0.12)	(0.05)	--	(0.224)

*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, 37.5 A	OHMS AT 25°C		OHMS AT 25°C	WATTS AT 25°C
HOLD	TRIP	MAX	MIN	MAX		TYP
7.5	14.8	8.0	.0074	.0153	0.022	4.5

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.

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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