

Tyco / Electronics
Raychem Circuit Protection
 308 Constitution Drive
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PolySwitch®
PTC Devices
 Overcurrent Protection Device

PRODUCT: AHRF600

DOCUMENT: SCD 25184
 PCN: F70668
 REV LETTER: A
 REV DATE: DECEMBER 17, 2002
 PAGE NO.: 1 OF 2

Specification Status: RELEASED

Electrical Rating

Voltage: 16V_{DC} MAX

Insulating Material:
 Cured, Flame Retardant Epoxy Polymer

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

Part Marking:

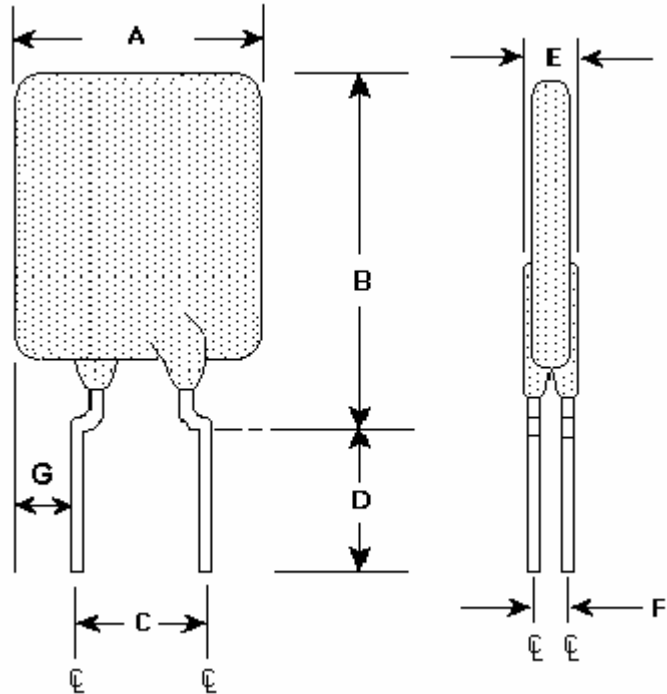
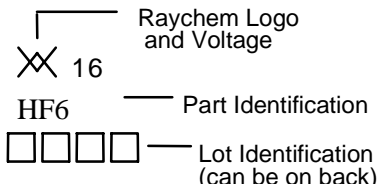


TABLE I. INSTALLATION ENVELOPE DIMENSIONS:

	A		B		C		D		E		F	G	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP	MIN	MAX
mm:	--	11.2	--	21.0	4.3	5.8	7.6	--	--	3.0	1.2	--	4.19
in*:	--	(0.44)	--	(0.83)	(0.17)	(0.23)	(0.30)	--	--	(0.12)	(0.05)	--	(0.17)

*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, 30 A MAX	OHMS AT 25°C		OHMS AT 25°C	WATTS AT 25°C TYP
			MIN	MAX		
6.0	12.0	6.5	.010	.022	0.032	4.1

Reference Documents:

PS400, PS300

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