

Specification Status: Released

Electrical Rating

Voltage: 32V_{DC} MAX
Current: 100A MAX

Insulating Material:
Cured, Flame Retardant Epoxy Polymer

Lead Material:
24 AWG Tin Plated Copper Clad Steel

Part Marking:

- Manufacturer's Mark and Voltage
- XX 32 — Part Identification
- EF1.0 — Lot Identification (can be on back)
- — Lot Identification (can be on back)

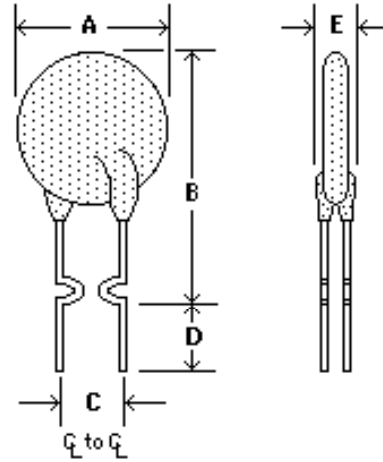


TABLE I. DIMENSIONS:

	A		B		C		D		E	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
mm:	--	9.7	--	13.6	4.3	5.8	7.6	--	--	3.0
in*:	--	(0.38)	--	(0.54)	(0.17)	(0.23)	(0.30)	--	--	(0.12)

*Rounded off approximation

TABLE II. PERFORMANCE RATINGS:

I HOLD RATED CURRENT	CURRENT RATINGS		INITIAL RESISTANCE VALUES		TIME TO TRIP	R _{aMAX}	TRIPPED-STATE POWER DISSIPATION
	AMPS AT 25°C HOLD	AMPS AT 25°C HOLD TRIP	OHMS AT 25°C MIN MAX		SECONDS AT 25°C, 5.0 A MAX	OHMS AT 25°C MAX	
1.0	1.0	1.9	0.15	0.30	6.2	0.43	1.4

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.

Materials Information

ROHS Compliant

ELV Compliant

Pb-Free





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PolySwitch®
PTC Devices
Overcurrent Protection Device

Raychem Circuit Protection Products

PRODUCT: AHEF100

DOCUMENT: SCD 26997
PCN: RF1046
REV LETTER: B
REV DATE: JANUARY 22, 2009
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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, 32V, 200A
Fault Current Durability	350 cycles, 32V/100A
End-of-life Mode Verification	1750 cycles, 32V/100A
Jump Start Endurance (see note 1)	3 cycles, 48V, 2 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