

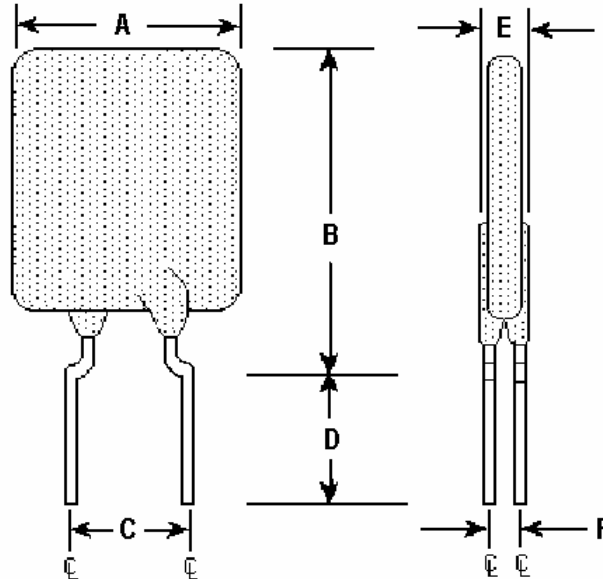
308 Constitution Drive  
 Menlo Park, CA 94025-1164  
 Phone: 800-227-4856  
 www.circuitprotection.com

## Specification Status: Released

### Electrical Rating

**Voltage: 16V<sub>DC</sub> MAX**  
**Current: 100A MAX**
**Insulating Material:**  
 Cured, Flame Retardant Epoxy Polymer  
 meets UL94 V-0 Requirements

**Lead Material:**  
 20 AWG Tin Plated Copper  
 (0.8 mm [0.032] 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
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP
mm:	--	14.0	--	21.9	4.3	5.8	7.6	--	--	3.0	1.2
in*:	--	(0.55)	--	(0.86)	(0.17)	(0.23)	(0.3)	--	--	(0.12)	(0.05)

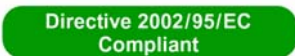
\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

CURRENT RATINGS		TIME TO TRIP	INITIAL RESISTANCE VALUES		R <sub>a</sub> MAX	TRIPPED-STATE POWER DISSIPATION
AMPS AT 25°C HOLD	AMPS AT 25°C TRIP	SECONDS AT 25°C, 35A MAX	OHMS AT 25°C MIN	OHMS AT 25°C MAX	OHMS AT 25°C MAX	WATTS AT 25°C 16V TYP
7.0	13.1	7.0	0.0087	0.0164	0.025	4.0

Reference Documents: PS400, PS300 (reference for R<sub>1</sub> 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: AHRF700**

DOCUMENT: SCD 26637  
PCN: RF0201  
REV LETTER: C  
REV DATE: MAY 8, 2007  
PAGE NO.: 2 OF 2

**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.

# AMEYA360

## Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit [www.ameya360.com](http://www.ameya360.com)

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd  
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email [amall@ameya360.com](mailto:amall@ameya360.com)

QQ 800077892

Skype [ameyasales1](#) [ameyasales2](#)

➤ Customer Service :

Email [service@ameya360.com](mailto:service@ameya360.com)

➤ Partnership :

Tel +86 (21) 64016692-8333

Email [mkt@ameya360.com](mailto:mkt@ameya360.com)