

### **PolySwitch® PTC Devices**

**Overcurrent Protection Device** 

PRODUCT: AHRF600

DOCUMENT: SCD25184

**REV LETTER: D** 

**REV DATE: JULY 26,2016** 

PAGE NO.: 1 OF 2

## **Specification Status: Released**

**Electrical Rating** Voltage: 16V<sub>DC</sub> MAX

**Insulating Material:** 

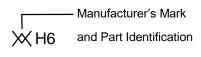
**Cured, Flame Retardant Epoxy** 

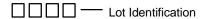
**Polymer** 

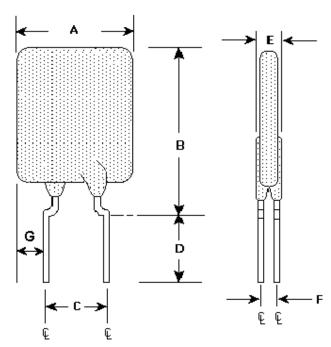
**Lead Material:** 

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

**Part Marking:** 







#### TABLE I. INSTALLATION ENVELOPE DIMENSIONS:

	Α		В		C		D		E		F		3
	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)	ı	(0.17)

<sup>\*</sup>Rounded off approximation

#### TABLE II. PERFORMANCE RATINGS:

CURRENT		TIME TO	RESIS	TANCE	Ra MAX	TRIPPED-STATE	
RATINGS		TRIP				POWER	
						DISSIPATION	
AM	PS	SECONDS AT	OHMS		OHMS	WATTS AT	
AT 25°C		25°C, 30 A	AT 25°C		AT 25°C	25°C	
HOLD	TRIP	MAX	MIN	MAX		TYP	
6.0	12.0	6.5	.010	.022	0.032	4.1	

PS400, PS300 **Reference Documents:** 

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**

Compliant

Revised July 26,2016

**ROHS Compliant ELV Compliant Pb-Free** 

Directive 2000/53/EC Directive 2000/53/EC Compliant



**Halogen Free\*** 

<sup>\*</sup> Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm.



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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

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