

### Specification Status: RELEASED

#### Electrical Rating

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

#### Insulating Material:

Cured, Flame Retardant Epoxy Polymer

#### Lead Material:

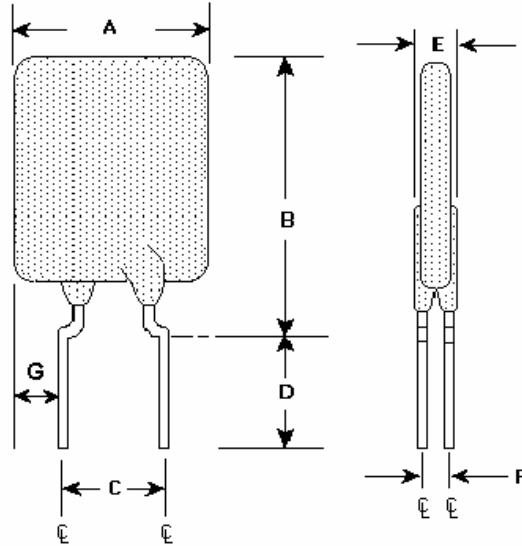
20 AWG Tin Plated Copper  
(0.8 mm [0.032] nom. diameter)

#### Part Marking:

Manufacturer's Mark and Voltage

Part Identification

Lot Identification  
(can be on back)



**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:	--	8.9	--	14.1	4.3	5.8	7.6	--	--	3.0	1.2	--	3.1
in*:	--	(0.35)	--	(0.56)	(0.17)	(0.23)	(0.30)	--	--	(0.12)	(0.05)	--	(0.12)

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

CURRENT RATINGS			TIME TO TRIP	INITIAL RESISTANCE		R <sub>1</sub> MAX POST TRIP RESISTANCE STANDARD TRIP	R <sub>A</sub> MAX	TRIPPED-STATE POWER DISSIPATION
HOLD AT R <sub>1</sub> MAX	AMPS AT 25°C HOLD AT R <sub>A</sub> MAX	TRIP	SECONDS AT 25°C, 20 A MAX	OHMS AT 25°C MIN   MAX		OHMS AT 25°C	OHMS AT 25°C	WATTS AT 25°C TYP
4.0	3.0	7.6	2.0	0.0186	0.0390	0.061	0.085	2.5

Reference Documents:

PS400, PS300 (Ref 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

Directive 2002/95/EC  
Compliant

Directive 2000/53/EC  
Compliant





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

**PolySwitch®**  
**PTC Devices**  
**Overcurrent Protection Device**  
*Raychem Circuit Protection Products*

**PRODUCT: AGRF400**

DOCUMENT: SCD 25231  
PCN: D54114  
REV LETTER: B  
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