

## Specification Status: Released

### Electrical Rating

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

### Insulating Material:

Cured, Flame Retardant Epoxy Polymer

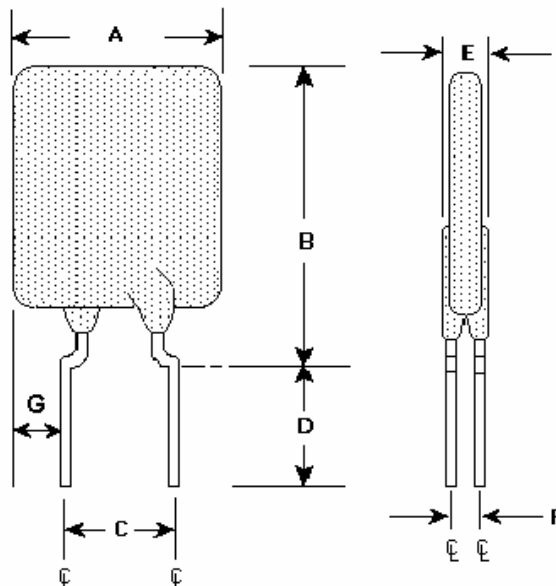
### Lead Material:

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

### Part Marking:

— Manufacturer's Mark  
XX G10 and Part Identification

□□□□ — Lot Identification



**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:	--	16.51	--	25.7	4.3	5.8	7.6	--	--	3.0	1.2	--	6.96
in*:	--	(0.65)	--	(1.01)	(0.17)	(0.23)	(0.30)	--	--	(0.12)	(0.05)	--	(0.274)

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

CURRENT RATINGS			TIME TO TRIP	INITIAL RESISTANCE		R <sub>1</sub> MAX 1 HR. 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, 50 A MAX	MIN	MAX	OHMS AT 25°C	OHMS AT 25°C	WATTS AT 25°C TYP
10.0	9.6	18.5	7.0	0.0034	0.0070	0.0102	0.0106	3.6

### Reference Documents:

### Precedence:

### Effectivity:

### CAUTION:

PS400, PS300 (reference for R<sub>1</sub> MAX)

This specification takes precedence over documents referenced herein.

Reference documents shall be the issue in effect on the date of invitation for bid.

Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.

## Materials Information

**ROHS Compliant**

**ELV Compliant**

**Pb-Free**

**Halogen Free\***

Directive 2002/95/EC  
Compliant

Directive 2000/53/EC  
Compliant



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

# PolySwitch® PTC Devices

## Overcurrent Protection Device

**PRODUCT: AGRF1000**DOCUMENT: SCD25237  
REV LETTER: E  
REV DATE: MARCH 12, 2013  
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