

Specification Status: Released

Electrical Rating

Voltage: 16V_{DC} 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)

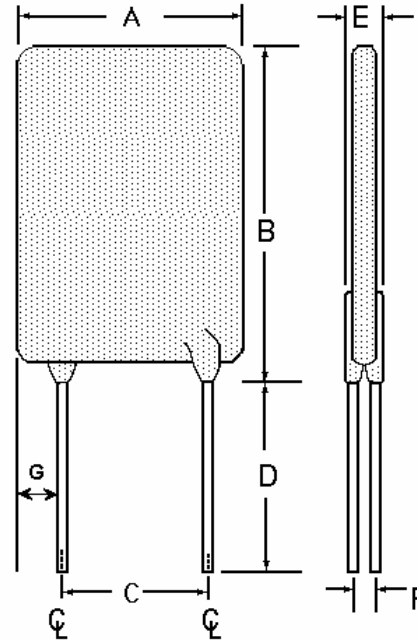


TABLE I. DIMENSIONS:

	A		B		C		D		E		F	G	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP	MIN	MAX
mm::	--	12.7	16.0	20.9	4.3	5.8	7.6	--	--	3.0	1.2	--	5.08
in*:	--	(0.50)	(0.630)	(0.820)	(0.17)	(0.23)	(0.30)	--	--	(0.12)	(0.05)	--	(0.200)

*Rounded off approximation

TABLE II. PERFORMANCE RATINGS:

CURRENT RATINGS			TIME TO TRIP	INITIAL RESISTANCE		R ₁ MAX 1 HR. POST TRIP RESISTANCE STANDARD TRIP	R _A MAX	TRIPPED- STATE POWER DISSIPATION
HOLD AT	AMPS AT 25°C HOLD AT	TRIP	SECONDS AT 25°C, 40 A MAX	OHMS AT 25°C MIN MAX		OHMS AT 25°C	OHMS AT 25°C	WATTS AT 25°C TYP
R ₁ MAX	R _A MAX							
8.0	7.6	15.0	5.5	0.0049	0.0113	0.0175	0.0181	3.2

Reference Documents:

PS400, PS300 (reference for R₁ 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





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PolySwitch®
PTC Devices
Overcurrent Protection Device

Raychem Circuit Protection Products

PRODUCT: AGRF800S

DOCUMENT: SCD 26386
PCN: RF0200
REV LETTER: B
REV DATE: MAY 8, 2007
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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