Tyco / Electronics Raychem Circuit Protection

308 Constitution Drive Menlo Park, CA 94025-1164

Phone: 800-227-4856 Fax: 800-227-4866

PolySwitch® **PTC Devices**

Overcurrent Protection Device

PRODUCT: AGRF900

DOCUMENT: SCD 25236 PCN: E57345

REV LETTER: A

REV DATE: OCTOBER 29, 2004

PAGE NO.: 1 OF 2

Specification Status: RELEASED

Electrical Rating Voltage: 16V_{DC} MAX

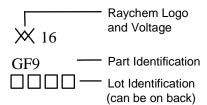
Insulating Material:

Cured, Flame Retardant Epoxy Polymer

Lead Material:

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

Part Marking:



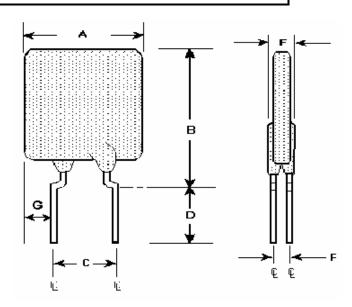


TABLE I. INSTALLATION ENVELOPE DIMENSIONS:

	Α		В		C		D		ı E		F	(G
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP	MIN	MAX
mm:		14.0		23.0	4.3	5.8	7.6			3.0	1.2		5.69
in*:		(0.55)	-	(0.91)	(0.17)	(0.23)	(0.30)		-	(0.12)	(0.05)		(0.22)

^{*}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	
	AMPS		SECONDS	OHMS		OHMS	OHMS	WATTS AT
P	AT 25°C		AT 25°C, 45 A	AT 25°C		AT 25°C	AT 25°C	25°C
HOLD	HOLD	TRIP	MAX	MIN	MAX			TYP
AT	AT							
R _{1 MAX}	$R_{A\;MAX}$							
9.0	8.6	16.5	6.0	0.0041	0.0091	0.0135	0.0140	3.4

Reference Documents: PS400, PS300 (reference for R_{1 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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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