PolySwitch®
PTC Devices
Overcurrent Protection Device

PRODUCT: AGRF900

DOCUMENT: SCD25236
REV LETTER: E
REV DATE: JULY 26, 2016
PAGE NO.: 1 OF 2

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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:

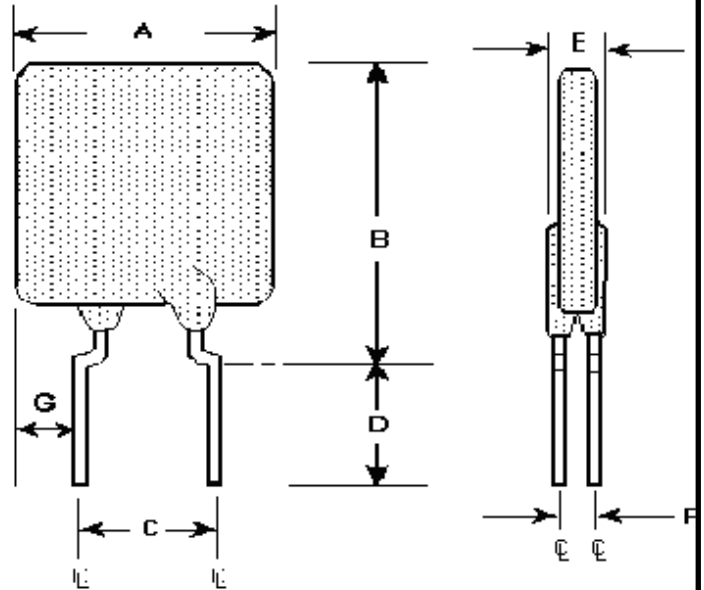XX G9 ——— Manufacturer's Mark and Part Identification

☐☐☐☐ — 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:	--	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 AT 25°C			SECONDS AT 25°C, 45 A MAX	OHMS AT 25°C		OHMS AT 25°C	OHMS AT 25°C	WATTS AT 25°C TYP
HOLD AT R$_{1\ MAX}$	HOLD AT R$_{A\ MAX}$	TRIP		MIN	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	Halogen Free*
Directive 2002/95/EC Compliant	Directive 2000/53/EC Compliant	(Pb)	**HF**

* 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