Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: AGRF900

DOCUMENT: SCD25236
REV LETTER: E
REV DATE: JULY 26, 2016

Specification Status: Released

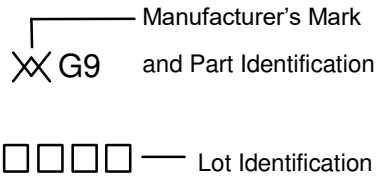
Electrical Rating

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:



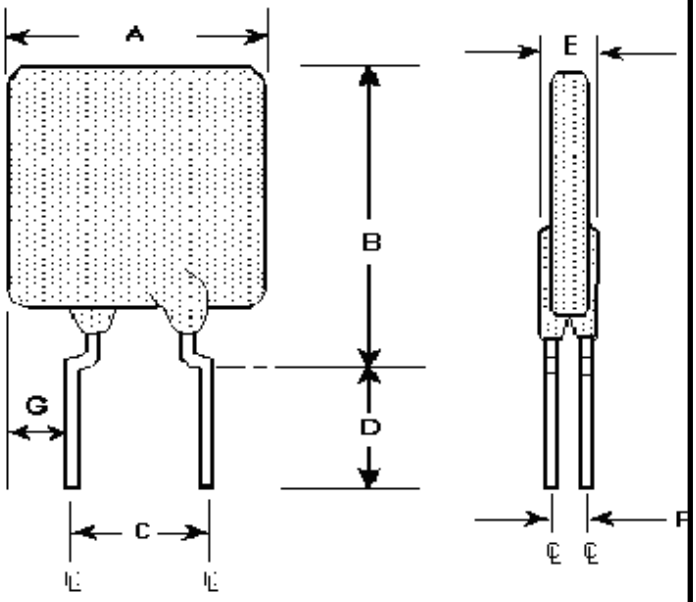


TABLE I. INSTALLATION ENVELOPE DIMENSIONS:

	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	OHMS AT 25°C		OHMS AT 25°C	OHMS AT 25°C	WATTS AT 25°C
HOLD AT $R_{1\ MAX}$	HOLD AT $R_{A\ MAX}$	TRIP	MAX	MIN	MAX			TYP
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 — Directive 2002/95/EC Compliant

ELV Compliant — Directive 2000/53/EC Compliant

Pb-Free

Halogen Free*

HF

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

Revised July 26,2016

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