

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: AGRF800

DOCUMENT: SCD25235

REV LETTER: D

REV DATE: JULY 26, 2016

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Specification Status: Released

Electrical Rating Voltage: 16Vpc MAX

Insulating Material:

Cured, Flame Retardant Epoxy Polymer

Lead Material:

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

Part Marking:

□□□□ — Lot Identification

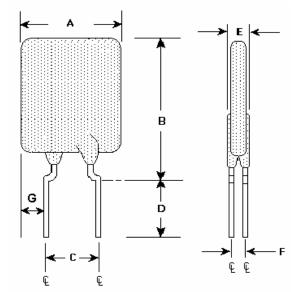


TABLE I. INSTALLATION ENVELOPE DIMENSIONS:

	Α		В		С		D		E		F	G	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP	MIN	MAX
mm:		12.7		22.2	4.3	5.8	7.6			3.0	1.2		5.08
in*:		(0.50)		(0.88)	(0.17)	(0.23)	(0.30)			(0.12)	(0.05)	-	(0.200)

^{*}Rounded off approximation

TABLE II. PERFORMANCE RATINGS:

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CURRENT RATINGS			TIME TO TRIP	INITIAL RESISTANCE		R _{1 MAX} 1 HR. POST TRIP RESISTANCE STANDARD TRIP	Ra max	TRIPPED-STATE POWER DISSIPATION	
AMPS AT 25°C			SECONDS AT 25°C, 40 A	OHMS AT 25°C		OHMS AT 25°C	OHMS AT 25°C	WATTS AT 25°C	
HOLD AT	HOLD AT	TRIP	MAX	MIN	MAX			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 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





^{*} 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

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