

Specification Status: Released

Electrical Rating

Voltage: 16V_{DC} MAX

Insulating Material:

Cured, Flame Retardant Epoxy Polymer

Lead Material:

18 AWG Tin Plated Copper
(1.0 mm [0.040] nom. diameter)

Part Marking:

— Manufacturer's Mark
XX G12 and Part Identification

□□□□ — Lot Identification

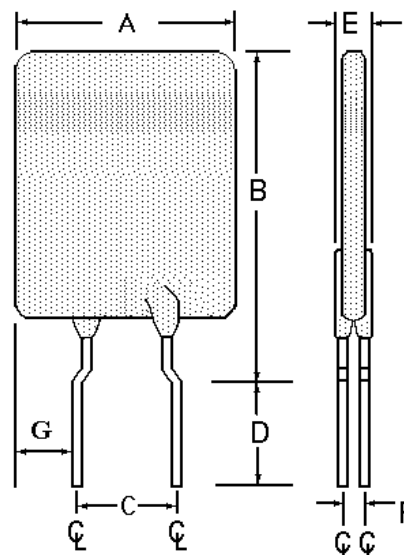


TABLE I. INSTALLATION ENVELOPE DIMENSIONS:

	A		B		C		D		E		F	G	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP	MIN	MAX
mm:	--	17.5	--	28.8	9.4	10.9	7.6	--	--	3.5	1.4	--	4.83
in*:	--	(0.69)	--	(1.14)	(0.37)	(0.43)	(0.30)	--	--	(0.14)	(0.06)	--	(0.190)

*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, 60 A MAX	OHMS AT 25°C		OHMS AT 25°C	OHMS AT 25°C	WATTS AT 25°C TYP
HOLD AT	HOLD AT	TRIP		MIN	MAX			
R ₁ MAX	R _A MAX							
12.0	11.5	22.1	8.0	0.0030	0.0057	0.0086	0.0091	4.2

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

Halogen Free*

Directive 2002/95/EC
Compliant

Directive 2000/53/EC
Compliant



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

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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