

Specification Status: Released

Electrical Rating

 Voltage: 16V_{DC} MAX

Current: 100A MAX

Insulating Material:

 Cured, Flame Retardant Epoxy Polymer
 meets UL94 V-0 Requirements

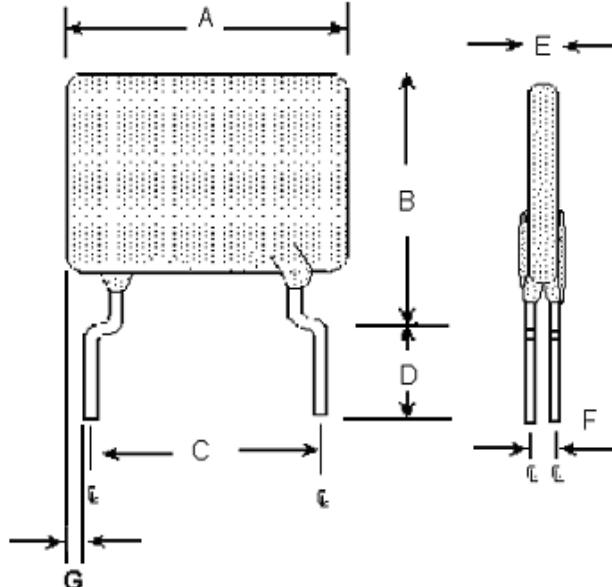
Lead Material:

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

Marking:

 Manufacturer's Mark

 H15 and Part Identification

 Lot Identification

TABLE I. INSTALLATION ENVELOPE DIMENSIONS:

mm:	A		B		C		D		E		F		G	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP	MIN	MAX	
	--	23.5	--	28.7	9.4	10.9	7.6	--	--	3.5	1.4	--	7.82	
in*:	--	(0.93)	--	(1.13)	(0.37)	(0.43)	(0.30)	--	--	(0.14)	(0.06)	--	(0.31)	

*Rounded off approximation

TABLE II. PERFORMANCE RATINGS:

I HOLD RATED CURRENT	CURRENT RATINGS		TIME TO TRIP		INITIAL RESISTANCE VALUES		R _a MAX	NOMINAL TRIPPED POWER DISSIPATION
AMPS AT 25°C HOLD	AMPS AT 25°C HOLD		SECONDS AT 25°C,75A MAX		OHMS AT 25°C MIN		OHMS AT 25°C MAX	WATTS AT 25°C 16V TYP
15.0	15.0	33.0	20.0	0.0027	0.0063	0.0092		7.0

 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

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