

Specification Status: Released
Electrical Rating
Voltage: 16V_{DC} MAX
Insulating Material:

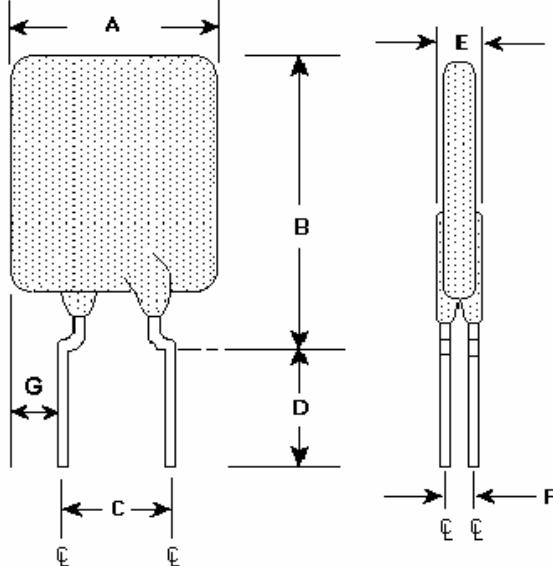
Cured, Flame Retardant Epoxy Polymer

Lead Material:

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

Part Marking:

G8 and Part Identification


 Lot Identification

TABLE I. INSTALLATION ENVELOPE DIMENSIONS:

	A MIN	A MAX	B MIN	B MAX	C MIN	C MAX	D MIN	D MAX	E MIN	E MAX	F TYP	G MIN	G 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:

CURRENT RATINGS			TIME TO TRIP	INITIAL RESISTANCE		R ₁ MAX 1 HR. POST TRIP RESISTANCE STANDARD TRIP	R _A MAX	TRIPPED-STATE POWER DISSIPATION
HOLD AT R ₁ MAX	AMPS AT 25°C	TRIP AT R _A MAX	SECONDS AT 25°C, 40 A MAX	OHMS AT 25°C		OHMS AT 25°C	WATTS AT 25°C TYP	
8.0	7.6	15.0	5.5	0.0049	0.0113	0.0175	0.0181	3.2

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