

**Specification Status: Released**

**Electrical Rating**

**Voltage: 16V<sub>DC</sub> MAX**

**Insulating Material:**

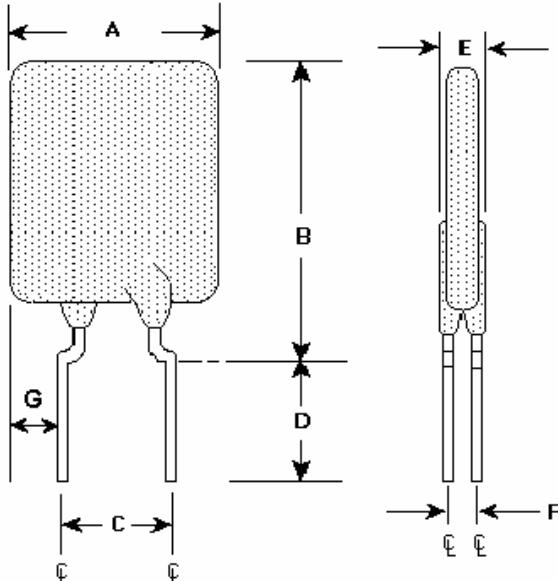
Cured, Flame Retardant Epoxy Polymer

**Lead Material:**

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

**Part Marking:**

- Manufacturer's Mark
-  **G10** 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:	--	16.51	--	25.7	4.3	5.8	7.6	--	--	3.0	1.2	--	6.96	
in*:	--	(0.65)	--	(1.01)	(0.17)	(0.23)	(0.30)	--	--	(0.12)	(0.05)	--	(0.274)	

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

CURRENT RATINGS			TIME TO TRIP		INITIAL RESISTANCE		R <sub>1</sub> MAX 1 HR. POST TRIP RESISTANCE STANDARD TRIP	R <sub>A</sub> MAX	TRIPPED-STATE POWER DISSIPATION
HOLD AT R <sub>1</sub> MAX	AMPS AT 25°C HOLD AT R <sub>A</sub> MAX	TRIP	SECONDS AT 25°C, 50 A MAX	OHMS AT 25°C MIN	OHMS AT 25°C MAX	OHMS AT 25°C	OHMS AT 25°C	WATTS AT 25°C TYP	
10.0	9.6	18.5	7.0	0.0034	0.0070	0.0102	0.0106	3.6	

Reference Documents:

PS400, PS300 (reference for R<sub>1</sub> 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