

**Specification Status: Released**

**Electrical Rating**

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

Insulating Material:

Cured, Flame Retardant Epoxy Polymer

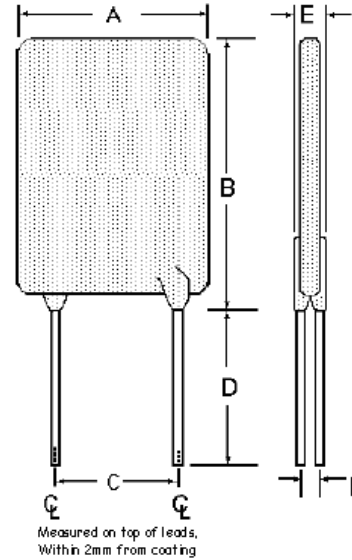
Lead Material:

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

Part Marking:

— Manufacturer's Mark  
**XX G8** and Part Identification

□□□□ — Lot Identification



**TABLE I. DIMENSIONS:**

	A		B		C		D		E		F
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP
mm:	--	12.7	16.0	20.9	4.3	5.8	25.4	--	--	3.0	1.2
in*:	--	(0.50)	(0.630)	(0.820)	(0.17)	(0.23)	(1.00)	--	--	(0.12)	(0.05)

\*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	HOLD AT	TRIP	SECONDS AT 25°C, 40 A MAX	OHMS AT 25°C		OHMS AT 25°C	OHMS AT 25°C	WATTS AT 25°C TYP
R <sub>1</sub> MAX	R <sub>A</sub> MAX			MIN	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<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

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