

**Specification Status: RELEASED**

**Electrical Rating**

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

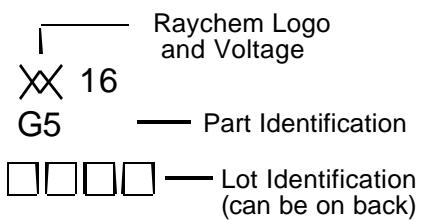
**INSULATING MATERIAL:**

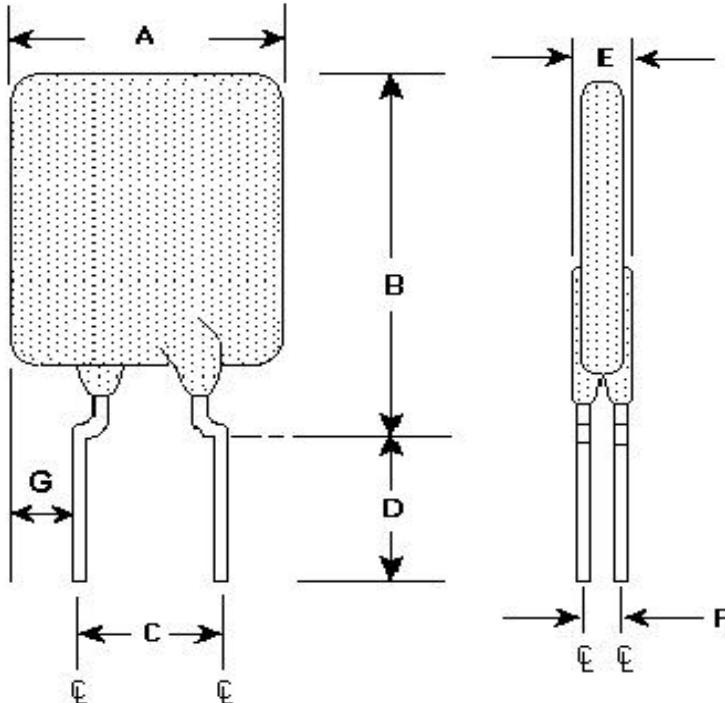
Cured, Flame Retarded Epoxy Polymer

**LEAD MATERIAL:**

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

**PART MARKING:**


 XX 16 — Raychem Logo and Voltage  
 G5 — Part Identification  
 — Lot Identification (can be on back)



**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:	--	10.4	--	15.6	4.3	5.8	7.6	--	--	3.0	1.2	--	3.94	
in*:	--	(0.41)	--	(0.61)	(0.17)	(0.23)	(0.30)	--	--	(0.12)	(0.05)	--	(0.155)	

\*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		RA 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, 25 A MAX	OHMS AT 25°C		OHMS AT 25°C		WATTS AT 25°C TYP				
				MIN	MAX							
5.0	4.3	9.4	2.5	0.014	0.024	0.034	0.048	0.048			2.7	

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.

**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