

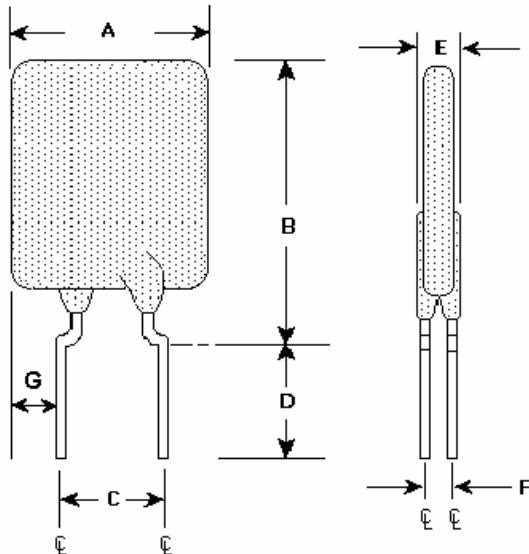
Specification Status: Released
Electrical Rating
Voltage: 16V_{DC} MAX
Insulating Material:

Cured, Flame Retardant Epoxy Polymer

Lead Material:

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

Part Marking:
 **G10** and Part Identification

 **0000** — 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:	--	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 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 HOLD AT R _A 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 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

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