

# PolySwitch® PTC Devices

**Overcurrent Protection Device** 

PRODUCT: SMDH120

DOCUMENT: SCD25652 REV LETTER: G

REV DATE: JULY 26, 2016

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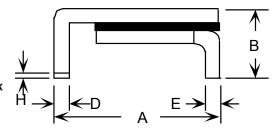
## **Specification Status: Released**

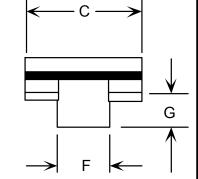
Maximum Electrical Rating
Operating Voltage / Interrupt Current
16V<sub>DC</sub> / 50A

Marking:









#### Notes:

- 1. All metal surfaces are tin plated.
- 2. Drawing not to scale.

### **TABLE I. DIMENSIONS:**

	Α		В		С		D		E		F		G		Н
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
mm:	6.73	7.98		3.00	4.8	5.44	0.56	0.71	0.56	0.71	2.16	2.41	0.66	1.37	0.43
in*:	(0.265)	(0.314)		(0.118)	(0.19)	(0.214)	(0.022)	(0.028)	(0.022)	(0.028)	(0.085)	(0.095)	(0.026)	(0.054)	(0.017)

#### TABLE II. PERFORMANCE RATINGS:

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	CU	RRENT	RATING	S**		TIME TO	RESISTANCE		TRIPPED-STATE		
						TRIP**	VALUES		POWER		
									DISSIPATION**		
AMPS		AM	PS	AMPS		SECONDS AT	OHMS		WATTS AT		
AT 0°C		AT 20°C		AT 60°C		20°C, 8.0A	AT 20°C		20°C		
HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	MAX	MIN	MAX*	MAX		
1.58	3.29	1.20	2.3	0.83	2.52	2.0	0.150	0.340	2.0		

<sup>\*</sup> Maximum resistance is measured 1 hour after reflow.

Agency Recognition: UL, CSA, TÜV Reference Document: PS300

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** 

Directive 2002/95/EC Compliant **ELV Compliant** 

Directive 2000/53/EC Compliant PD-Free

**Halogen Free\*** 



<sup>\*\*</sup> Values specified were determined using PCB's with 0.070"X1.5 ounce copper traces.

<sup>\*</sup> Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm.



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