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PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: SMD050F

DOCUMENT: SCD25656
REV LETTER: F
REV DATE: JULY 26, 2016

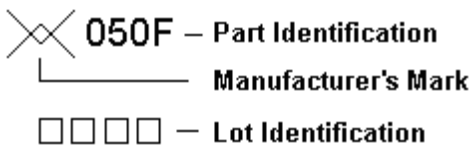
Specification Status: Released

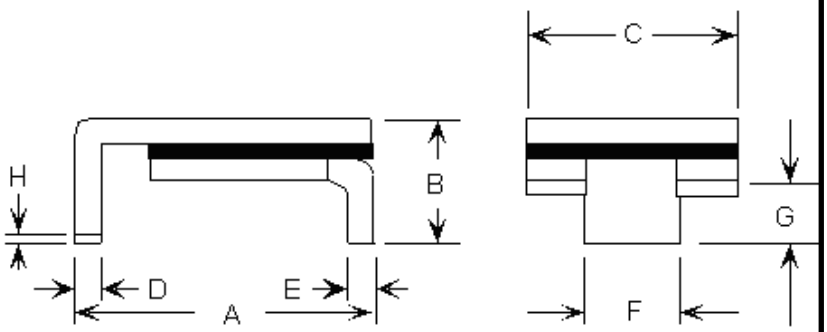
Maximum Electrical Ratings

Operating Voltage / Interrupt Current

$60V_{DC}$ / 10A
$12V_{DC}$ / 60A
$5V_{DC}$ / 125A

Marking:





Notes:
1. All metal surfaces are tin plated.
2. Devices cannot be wave soldered.
3. Drawing not to scale.

TABLE I. DIMENSIONS:

	A		B		C		D		E		F		G		H
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
mm:	6.73	7.98	--	3.18	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)	--	(0.125)	(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:

CURRENT RATINGS**						TIME TO TRIP**	RESISTANCE VALUES		TRIPPED-STATE POWER DISSIPATION**
AMPS AT 0°C		AMPS AT 20°C		AMPS AT 60°C		SECONDS AT 20°C, 2.5A	OHMS AT 20°C		WATTS AT 20°C
HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	MAX	MIN	MAX*	MAX
0.55	1.10	0.50	1.00	0.33	0.66	4.0	0.35	1.4	1.7

* Maximum resistance is measured 1 hour after reflow.
** Values specified were determined using PCB's with 0.070"X1.5 ounce copper traces.

Agency Recognition:	UL, CSA and TÜV
Reference Documents:	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

Pb-Free

Halogen Free*
HF

* Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm

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