

**Specification Status: Released**

**Maximum Electrical Rating**

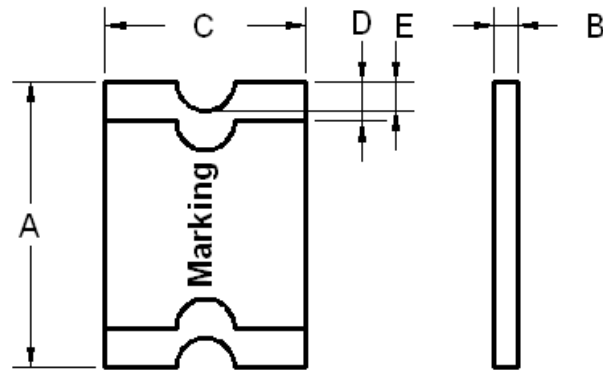
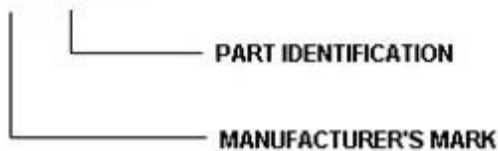
**Voltage: 60V<sub>DC</sub>**  
**Short Circuit Current: 10A**

**Notes:**

1. All terminations are tin plated.
2. Drawing not to scale

**Marking:**

⊗ 050F



**TABLE I. DIMENSIONS:**

	A		B		C		D		E
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
mm:	7.30	7.70	0.63	0.90	4.90	5.30	0.25	0.95	0.20
in:	(0.287)	(0.303)	(0.025)	(0.035)	(0.193)	(0.209)	(0.010)	(0.037)	(0.008)

**TABLE II. PERFORMANCE RATINGS:**

CURRENT RATINGS**						TIME TO TRIP**	RESISTANCE VALUES	TRIPPED-STATE POWER DISSIPATION**	
AMPERES AT 0°C		AMPERES AT 25°C		AMPERES AT 60°C		SECONDS AT 25°C, 2.5A MAX	OHMS AT 25°C		WATTS AT 25°C, 60V MAX
HOLD	TRIP	HOLD	TRIP	HOLD	TRIP		MIN	MAX*	
0.65	1.30	0.50	1.00	0.32	0.64	4.0	0.15	1.20	1.5

\* Maximum resistance is measured 1 hour after reflow.

\*\* Values Specified were determined using PCB's with 0.070"X1.5 ounce copper traces.

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

**Pb-Free**



**Halogen Free\***



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

**PolySwitch®**  
**PTC Devices**  
Overcurrent Protection Device

**PRODUCT: SMDC050F**

DOCUMENT: SCD28983  
REV LETTER: A  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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