## Tyco / Electronics Raychem Circuit Protection

308 Constitution Drive Menlo Park, CA 94025-1164

Phone: 800-227-4856 Fax: 800-227-4866

# Circuit Protection® PTC Devices

**Overcurrent Protection Device** 

PRODUCT: SMD050-2018

DOCUMENT: SCD 24697

PCN: 175564 REV LETTER: E

REV DATE: JANUARY 22, 2002

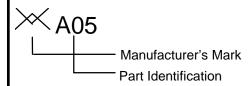
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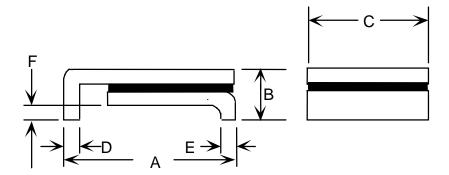
### **Specification Status: Released**

#### **Maximum Electrical Ratings**

Voltage: 57 V<sub>DC</sub> Current: 10 A

#### Marking:





#### Notes:

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

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

	17.222 II 21III21(0101(0)											
	А		В		С		D		E		F	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
mm:	4.72	5.44	1	1.78	4.22	4.93	0.25	0.36	0.25	0.36	0.30	0.46
in*:	(0.186)	(0.214)	-	(0.070)	(0.166)	(0.194)	(0.010)	(0.014)	(0.010)	(0.014)	(0.012)	(0.018)

<sup>\*</sup>Rounded off approximation

#### **TABLE II. PERFORMANCE RATINGS:**

	CUF	RRENT	RATIN	GS**		TIME TO			TRIPPED-STATE	
						TRIP **	VALUES		POWER DISSIPATION**	
AMPERES   AMPERES   AM				AMPE	RES	SECONDS	OHMS		WATTS AT	
AT 0°C		AT 20°C		AT 70°C		AT 20°C, 2.5A	AT 20°C		20°C	
HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	MAX	MIN	MAX*	MAX	
0.70	1.61	0.55	1.20	0.36	0.67	5.0	0.2	0.7	0.8	

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

Reference Documents: PS300, E.N. SMD 1.0x

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.

<sup>\*\*</sup>Values specified were determined using PCB's with 0.030"x1.5ounce copper traces