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# PolySwitch® PTC Devices

**Overcurrent Protection Device** 

PRODUCT: femtoSMDC016F

DOCUMENT: SCD27724

REV LETTER: B

REV DATE: MAY 9, 2011 PAGE NO.: 1 OF 1

## **Specification Status: Released**

### **Maximum Electrical Rating**

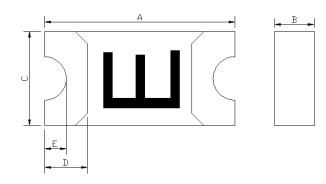
Voltage: 9.0V<sub>DC</sub>

**Short Circuit Current: 40A** 

#### Notes:

- 1. All terminations are Tin plated.
- 2. Drawing not to scale

Marking: **E** 



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

	Α		В		(	)	[	E	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
mm:	1.40	1.80	0.35	0.75	0.60	1.00	0.10	0.50	0.075
in:	(0.055)	(0.071)	(0.013)	(0.030)	(0.023)	(0.039)	(0.004)	(0.020)	(0.003)

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

CURRENT RATINGS**								TIME TO	RESISTANCE		TRIPPED-STATE	
								TRIP**	TRIP** VAL		POWER	
											DISSIPATION**	
AMPE	AMPERES		AMPERES		AMPERES		ERES	SECONDS	OHMS		WATTS AT	
AT 0°C		AT 25°C		AT 60°C		AT 85°C		AT 25°C, 1.0A	AT 25°C		25°C, 9.0V	
HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	MAX	MIN	MAX*	MAX	
0.18	0.45	0.16	0.40	0.11	0.28	0.07	0.17	0.1	1.00	4.20	0.5	

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

Agency Recognitions: UL, CSA 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 ELV Compliant

Pb-Free

Halogen Free\*

Directive 2002/95/EC Compliant

Directive 2000/53/EC Compliant





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<sup>\*\*</sup> Values specified were determined using PCB's with 0.030"x1.0 ounce copper traces.

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