

Tyco / Electronics
Raychem Circuit Protection
 308 Constitution Drive
 Menlo Park, CA 94025
 Phone: 800-227-4856
 Fax: 800-227-4866

PolySwitch®
PTC Devices
 Overcurrent Protection Device

PRODUCT: SMD250F

DOCUMENT: SCD 25100
 PCN: C42452
 REV LETTER: C
 REV DATE: MARCH 28, 2005
 PAGE NO.: 1 OF 1

Specification Status: Released

Maximum Electrical Ratings

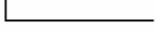
Operating Voltage / Interrupt Current

15V / 40A

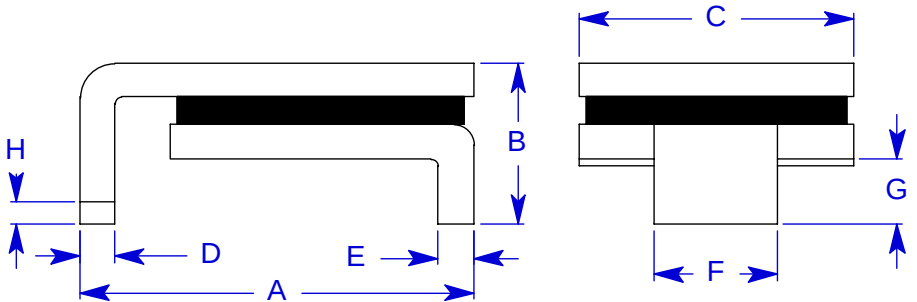
12V / 60A

5V / 125A

Marking:

 **250F** – Part Identification
 – Manufacturer's Mark

 – Lot Identification



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:	8.00	9.40	--	3.00	6.00	6.71	0.56	0.71	0.56	0.71	3.68	3.94	0.66	1.37	0.43
in*:	(0.315)	(0.370)	--	(0.118)	(0.236)	(0.264)	(0.022)	(0.028)	(0.022)	(0.028)	(0.145)	(0.155)	(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, 8.0A MAX	OHMS AT 20°C		WATTS AT 20°C MAX
HOLD	TRIP	HOLD	TRIP	HOLD	TRIP		MIN	MAX*	
2.8	6.0	2.5	5.0	1.6	3.8	25.0	0.035	0.085	1.9

* 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:
 Reference Documents:
 Precedence:
 Effectivity:
 CAUTION:

UL, CSA and TÜV
 PS300, E.N. SMD 1.0x
 This specification takes precedence over documents referenced herein.
 Reference documents shall be the issue in effect on the date of invitation for bid.
 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

