### Tyco / Electronics **Raychem Circuit Protection**

308 Constitution Drive Menlo Park, CA 94025-1164 Phone 800-227-4856 Fax 800-227-4866

## **PolySwitch® PTC Devices**

**Overcurrent Protection Device** 

PRODUCT: VLR170F

DOCUMENT: SCD26025

PCN: D91020 **REV LETTER: A** 

REV DATE: JANUARY 12, 2005

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# **Specification Status: Released**

### **Maximum Electrical Rating** Operating Voltage: 12Vdc Interrupt Current: 100A

Chip Size: 3.6 X 10mm

Leads: Nickel 1/4H

0.125mm nominal thickness

Tape: Polyester (White)

11.0 mm nominal width

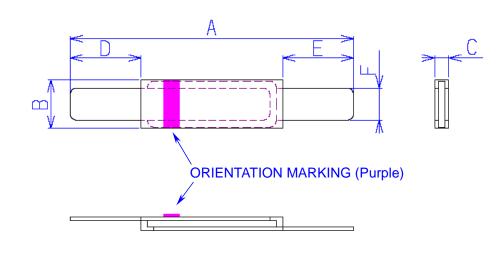
Solder: Lead-free

Lot Marking Ink Color: Green

Marking:

Manufacturer's Mark R17 — Part Identification

☐ ☐ ☐ — Lot Identification



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

	Α		В		С		D		Е		F	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
mm:	20.8	23.2	3.5	3.9		8.0	4.5	6.5	4.5	6.5	2.4	2.6
in*:	(0.82)	(0.91)	(0.14)	(0.15)		(0.03)	(0.18)	(0.26)	(0.18)	(0.26)	(0.09)	(0.10)

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

TABLE II. PERFORMANCE RATINGS: As measured in Mueller Kelvin Clips model BU-75K.

I HOLD	CURRENT TRIP LIMITS T										REFE	RENCE	ONE-HOUR TRIPPED			PED-
								TR	ΙP	RESISTANCE		POST-TRIP		STATE		
												RESIS	RESISTANCE		POWER	
															DISSIPATION	
AMPS	AMPS		AMI	AMPS AMPS		PS	AMPS		SECONDS AT		OHMS		OHMS		WATTS AT	
25°C	AT 0°C		AT 2	T 25°C AT 60°C		60°C	AT°C		25°C, 8.5A		AT 25°C		AT 25°C		25°C, 12V	
HOLD	HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	MIN	MAX	MIN	MAX	MIN	MAX	MA	λX
1.7	2.4	5.6	1.7	4.1	0.7	1.9				5	0.018	0.032	0.018	0.064		1.4

Agency Recognitions: UL, TUV, 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** 

Directive 2002/95/EC Compliant

**ELV Compliant** 

Directive 2000/53/EC Compliant

**Pb-Free** 



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