

**Tyco / Electronics**  
**Raychem Circuit Protection**  
 308 Constitution Drive  
 Menlo Park, CA 94025-1164  
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**PolySwitch®**  
**PTC Devices**  
 Overcurrent Protection Device

**PRODUCT: VLR170L**

DOCUMENT: SCD 25325  
 PCN: A51732  
 REV LETTER: A  
 REV DATE: JANUARY 10, 2002  
 PAGE NO.: 1 OF 1

**Specification Status: Preliminary**

**Maximum Electrical Rating**

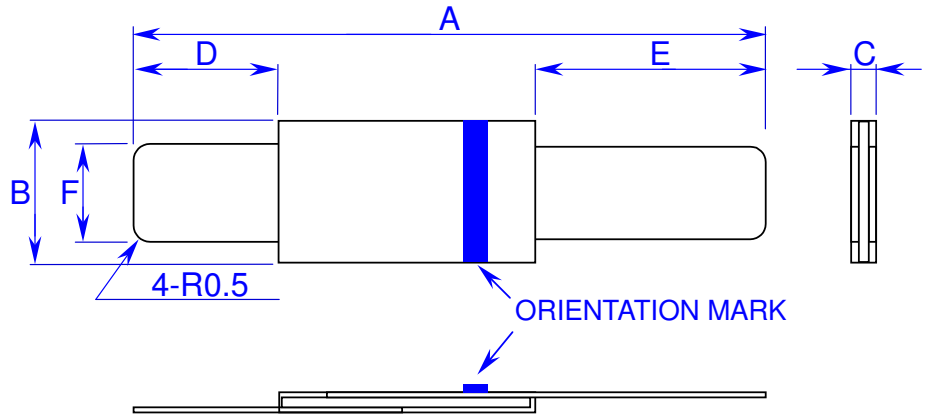
**Operating Voltage: 12Vdc**  
**Interrupt Current: 100A**

Leads: Nickel 1/2H  
 0.125mm nominal thickness

Tape: Polyester  
 11 mm nominal width

**Marking:**

- \_\_\_\_\_ Manufacturer's Mark
- ⊗ R17 \_\_\_\_\_ Part Identification
- \_\_\_\_\_ Lot Identification



**TABLE I. DIMENSIONS:**

	A		B		C		D		E		F	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
mm:	38.8	41.2	3.5	3.9	---	0.8	8.7	10.3	18.7	20.3	2.4	2.6
in*:	(1.53)	(1.62)	(0.14)	(0.15)	--	(0.03)	(0.34)	(0.41)	(0.74)	(0.80)	(0.09)	(0.10)

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

I HOLD	CURRENT TRIP LIMITS								TIME TO TRIP	REFERENCE RESISTANCE	ONE-HOUR POST-TRIP RESISTANCE	TRIPPED-STATE POWER DISSIPATION			
	AMPS AT 0°C		AMPS AT 25°C		AMPS AT 60°C		AMPS AT ---°C						OHMS AT 25°C		WATTS AT 25°C, 12V MAX
25°C HOLD	AMPS HOLD	AMPS TRIP	AMPS HOLD	AMPS TRIP	AMPS HOLD	AMPS TRIP	AMPS HOLD	AMPS TRIP	SECONDS AT 25°C, 8.5A	OHMS MIN	OHMS MAX	OHMS MIN	OHMS MAX		
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

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.