

**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: VLR175L**  
 DOCUMENT: SCD 24636  
 PCN: 478956  
 REV LETTER: B  
 REV DATE: AUGUST 1, 2002  
 PAGE NO.: 1 OF 1

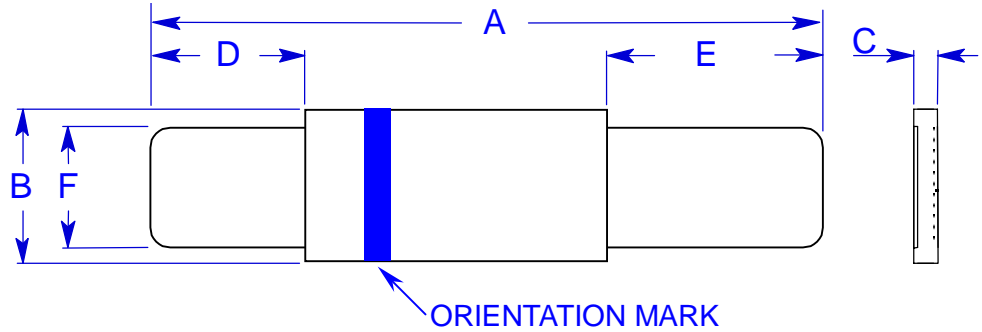
**Specification Status: Preliminary**

**Electrical Rating**  
**Voltage: 12V MAX**  
**Current: 100A MAX**

Leads:  
 Nickel  
 0.125mm Nominal Thickness

Tape:  
 Polyester  
 13mm Nominal Width

Marking:  
 \_\_\_\_\_ Manufacturer's Mark  
 XX R1X \_\_\_\_\_ Part Identification  
 □□□□ \_\_\_\_\_ Lot Identification



**TABLE I. DIMENSIONS:**

	A		B		C		D		E		F		G	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
mm:	29.3	31.7	2.9	3.3	--	0.8	5.2	6.8	10.0	12.5	2.4	2.6	--	--
in*:	(1.15)	(1.25)	(0.11)	(0.13)	--	(0.03)	(0.21)	(0.27)	(0.39)	(0.49)	(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						SECONDS AT 25°C, 8.75A MAX	OHMS AT 25°C	
25°C HOLD	HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	HOLD	TRIP		MIN	MAX	MIN	MAX	TYP	MAX
1.75	2.4	5.6	1.75	4.2	0.8	2.0	--	--	5	0.017	0.031	0.017	0.062	--	1.4

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 or bid.  
 CAUTION: Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.