

**Specification Status: Released**

**Maximum Electrical Rating**

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

Chip Size: 3x12mm

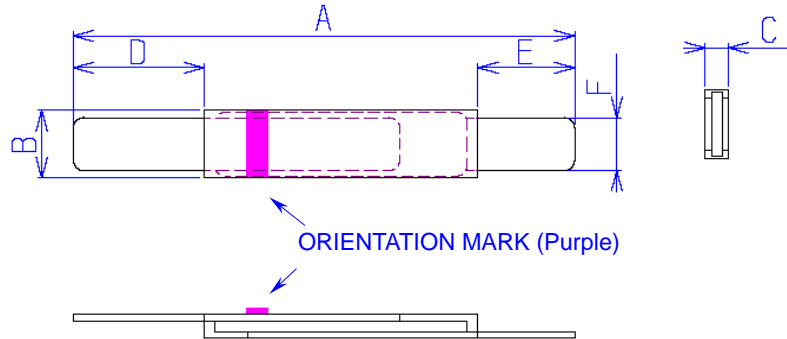
Leads: Nickel 1/4H  
 0.125mm nominal thickness

Solder: Lead-free

Tape: Polyester (White)  
 13mm nominal width

Marking: (Color: Green)

- Manufacturer's Mark
- XX R1X — 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:	23.0	24.5	2.9	3.3	0.5	0.8	4.7	7.2	3.8	5.4	2.4	2.6
in*:	(0.91)	(0.96)	(0.11)	(0.13)	(0.02)	(0.03)	(0.19)	(0.28)	(0.15)	(0.21)	(0.09)	(0.10)

\*Rounded off approximation

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

I HOLD	CURRENT TRIP LIMITS						TIME TO TRIP		REFERENCE RESISTANCE		ONE-HOUR POST-TRIP RESISTANCE		TRIPPED-STATE POWER DISSIPATION
	AMPS HOLD	AMPS AT 0°C HOLD	AMPS AT 25°C TRIP	AMPS AT 60°C HOLD	AMPS AT 60°C TRIP	AMPS HOLD	AMPS TRIP	SECONDS AT 25°C, 8.75A MIN	SECONDS AT 25°C, 8.75A MAX	OHMS AT 25°C MIN	OHMS AT 25°C MAX	OHMS AT 25°C MIN	
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

Agency Recognition: UL, TUV, CSA  
 Reference Document: 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**



Expertise Applied | Answers Delivered

**PolySwitch®**  
**PTC Devices**  
**Overcurrent Protection Device**

**PRODUCT: VLR175F**

DOCUMENT: SCD25501  
REV LETTER: H  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and shall not be used for, any purpose (including, without limitation, military, aerospace, medical, life-saving, life-sustaining or nuclear facility applications, devices intended for surgical implant into the body, or any other application in which the failure or lack of desired operation of the product may result in personal injury, death, or property damage) other than those expressly set forth in applicable Littelfuse product documentation. Warranties granted by Littelfuse shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse documentation. Littelfuse shall not be liable for any claims or damages arising out of products used in applications not expressly intended by Littelfuse as set forth in applicable Littelfuse documentation. The sale and use of Littelfuse products is subject to Littelfuse Terms and Conditions of Sale, unless otherwise agreed by Littelfuse.