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PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: VLR175F

DOCUMENT: SCD25501
REV LETTER: H
REV DATE: JULY 26, 2016
PAGE NO.: 1 OF 2

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

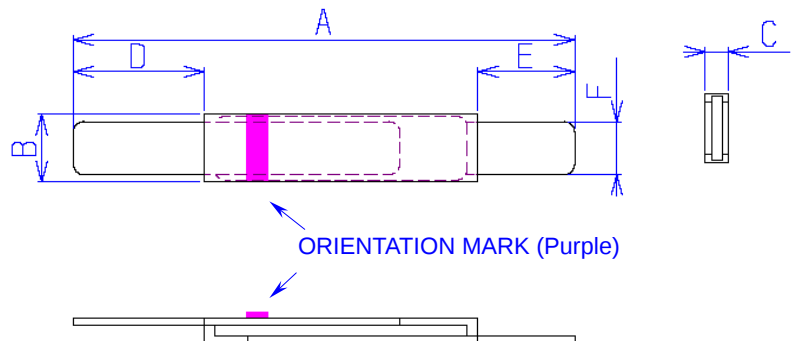


TABLE I. DIMENSIONS:

	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 AT 0°C		AMPS AT 25°C		AMPS AT 60°C		SECONDS AT 25°C, 8.75A		OHMS AT 25°C		OHMS AT 25°C		
AMPS 25°C HOLD	HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	MIN	MAX	MIN	MAX	MIN	MAX	WATTS AT 25°C, 12V 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

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





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