PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: LR4-450F

DOCUMENT: SCD25849
PCN: 177226
REV LETTER: D
REV DATE: JULY 26, 2016

Specification Status: Released

Electrical Rating

Voltage: 20V MAX
Current: 100A MAX

Chip Size: 10 X 12mm

Leads: Nickel 1/4H
0.125mm nominal thickness

Tape: Polyester (White)
13.0mm nominal Width

Solder: Lead-free

Marking: (Color: Green)

- Manufacturer's Mark
- E45 — Part Identification
- □□□□ — Lot Identification

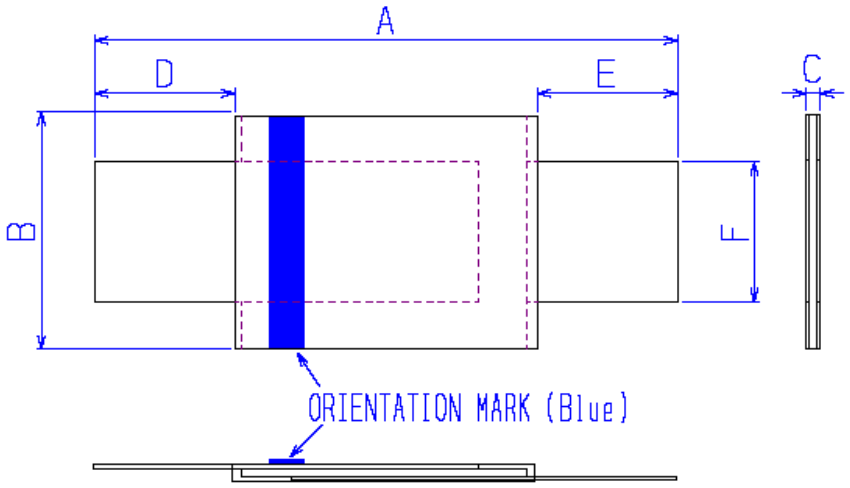


TABLE I. DIMENSIONS:

	A		B		C		D		E		F	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
mm:	24.0	26.0	9.9	10.5	0.6	1.0	5.3	6.7	5.3	6.7	5.9	6.1
in*:	(0.94)	(1.02)	(0.39)	(0.41)	(0.02)	(0.04)	(0.21)	(0.26)	(0.21)	(0.26)	(0.23)	(0.24)

*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 20°C	AMPS AT 0°C		AMPS AT 20°C		AMPS AT 60°C		AMPS AT --°C		SECONDS AT 20°C,22.5A		OHMS AT 20°C		OHMS AT 20°C		WATTS AT 20°C, 20V	
HOLD	HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	TYP	MAX	MIN	MAX	MIN	MAX	TYP	MAX
4.5	5.3	10.4	4.5	8.9	3.3	6.5	--	--	--	5	0.011	0.020	0.011	0.028	--	2.3

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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