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PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TCF250-145-RB-B-0.5

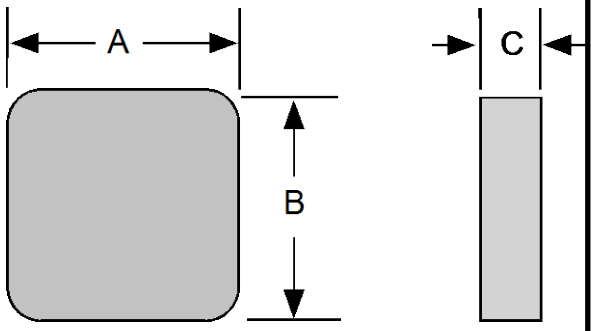
DOCUMENT: SCD25921
REV LETTER: G
REV DATE: JULY 26, 2016

Specification Status: Released

Maximum Operating Voltage: $60V_{DC}$

Fault Ratings at 20°C:
$250V_{RMS}$, 3A, 10 applications

Additional Info at 20°C:
- Resistance matched: 0.5 ohms
- Lightning withstand:
  - ITU-T K.20/K21 - 1.5 kV
- Helps equipment meet ITU-T K.20/K.21 recommendations
- Helps equipment meet Telcordia GR1089 intrabuilding requirements



Marking:
None

TABLE I. DIMENSIONS:

	A		B		C	
	MIN	MAX	MIN	MAX	MIN	MAX
mm:	5.4	5.6	5.4	5.6	2.0	2.5
in:*	(0.21)	(0.22)	(0.21)	(0.22)	(0.08)	(0.10)

*Rounded off approximation.

TABLE II. PERFORMANCE RATINGS @ 20°C:

HOLD* CURRENT (A)	TRIP CURRENT (A)	RESISTANCE (Ω)			TIME TO TRIP(Sec) @ 1A	OPERATING TEMPERATURE (°C)		TRIPPED POWER DISSIPATION (W)
		R MIN	R MAX	$R_{1\ MAX}$**	TYP*	MIN	MAX	TYP @ $60V_{DC}$
0.145	0.290	4.3	6.0	14.0	2.0	-40	85	1.0

* Dependent on Heat Sinking of Mounting Fixture.
**Maximum device resistance at 20°C measured 1 hour post trip

TABLE III. APPLICABLE PART DESCRIPTIONS:

PART DESCRIPTION	PCN # (INTERNAL USE ONLY)	PACKAGING TYPE	NOTES
TCF250-145-RB-B-0.5	A25043-000	Bulk	N/A

Agency Recognitions:	UL (File #E74889)
Reference Documents:	PS300, ITU-T K.20/K.21
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