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NANOSMDC150F-2 Product Details

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NANOSMDC150F-2

TE Internal Number:
RF1358-000

 Active

PolySwitch Resettable Devices

 Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:

- Surface Mount Application
- Vmax Operating = 6 V
- Vmax = 6 V
- Imax = 100 A
- Family Name = nanoSMD

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Documentation & Additional Information

Product Drawings:

- [nanoSMDC150F](#) (PDF, English)

Catalog Pages/Data Sheets:

- [CP CATALOG 2011 - SURFACE-MOUNT](#) (PDF, English)

Product Specifications:

- [nanoSMDC150F](#) (PDF, English)

Application Specifications:

- None Available

Instruction Sheets:

- None Available

CAD Files:

- None Available

Related Products:

- [Tooling](#)

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Product Features (Please use the Product Drawing for all design activity)

Product Type Features:

- Family Name = nanoSMD
- UL File Number = E74889
- CSA File Number = CA78165

Electrical Characteristics:

- Vmax Operating (V) = 6
- Vmax (V) = 6
- Imax (A) = 100
- IH (Room Temperature) (A) = 1.5
- IT (Room Temperature) (A) = 3.00
- Rmin (Ω) = 0.04
- R1 Max [Post Trip] (Ω) = 0.11
- Power Dissipation (Max) (W) = 0.8

Termination Features:

- Construction = Surface Mount

Configuration Features:

- Form Factor (inches) = 1206

Industry Standards:

- [RoHS/ELV Compliance](#) = RoHS compliant, ELV compliant
- [Lead Free Solder Processes](#) = Reflow solder capable to 245°C, Reflow solder capable to 260°C
- RoHS/ELV Compliance History = Always was RoHS compliant
- TUV Certificate No. = R72041439

Environmental:

- [Operating Temperature \(Max.\) \(°C\)](#) = 85

Operation/Application:

- Application = Surface Mount

Packaging Features:

- Packaging Method = Tape & Reel

Other:

- Brand = Raychem

- Form Factor (mm) = 3216

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www.circuitprotection.com

PolySwitch® PTC Devices

Overcurrent Protection Device

Raychem Circuit Protection Products

PRODUCT: nanoSMDC150F

DOCUMENT: SCD 25260
REV LETTER: J
REV DATE: 15-Apr-11
PAGE NO.: 1 OF 1

Specification Status: Released

Maximum Electrical Rating

Voltage: 6.0V_{DC}
Short Circuit Current: 100A

Notes:

1. All terminations are tin plated.
2. Drawing not to scale

Marking:

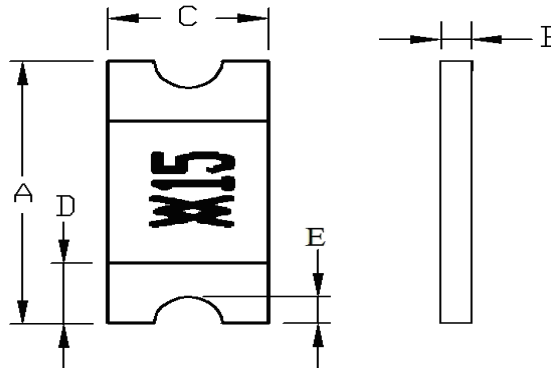
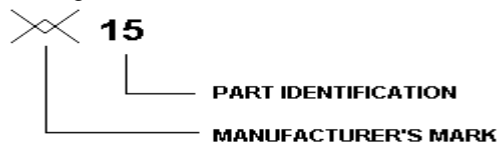


TABLE I. DIMENSIONS:

A		B		C		D		E	
MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	
3.00	3.40	0.55	0.89	1.37	1.80	0.25	0.75	0.076	
in:	(0.118)	(0.134)	(0.022)	(0.035)	(0.054)	(0.071)	(0.010)	(0.030)	(0.003)

TABLE II. PERFORMANCE RATINGS:

CURRENT RATINGS**						TIME TO TRIP **	RESISTANCE VALUES	TRIPPED-STATE POWER DISSIPATION**	
AMPERES AT 0°C		AMPERES AT 25°C		AMPERES AT 60°C		SECONDS AT 25°C, 8.0A	OHMS AT 25°C		WATTS AT 25°C, 6.0V
HOLD	TRIP	HOLD	TRIP	HOLD	TRIP	MAX	MIN	MAX*	MAX
1.77	3.54	1.50	3.00	1.10	2.20	0.3	0.04	0.110	0.8

*Maximum resistance is measured 1 hour after reflow.

** Values specified were determined using PCB's with 0.030"X1.5 ounce copper traces.

Agency Recognitions: UL, CSA, TÜV
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



Halogen Free*



* Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm