



NNCD7.5MDT

ELECTROSTATIC DISCHARGE NOISE CLIPPING DIODE FOR LIN BUS APPLICATION

DESCRIPTION

This product is the ESD (Electrostatic Discharge) Noise Clipping Diode that is designed to protect from both positive and negative noise.

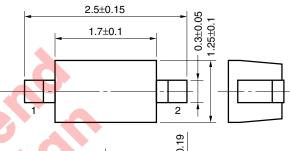
FEATURES

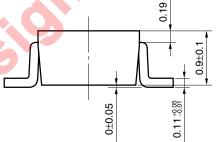
- Suitable to absorb positive and negative noise
- Comply with IEC61000-4-2 or higher
- Possible to high density mounting with small sized 2-pin Super Mini Mold Package (SC-76)

APPLICATIONS

- ESD protection
- Surge absorbing

PACKAGE DRAWING (Unit: mm)





ORDERING INFORMATION

PART NUMBER	LEAD PLATING	PACKING	PACKAGE
NNCD7.5MDT-T1-AT Note	Pure Sn (Tin)	Tape 3000 p/reel	2-pin Super Mini Mold (SC-76)

Note Pb-free (This product does not contain Pb in the external electrode and other parts.)

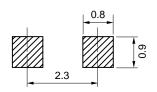
PIN CONFIGURATION



ABSOLUTE MAXIMUM RATINGS (TA = 25°C)

ABOULUTE MAXIMUM NATINGO (14 - 25 0)								
Parameter	Symbol	Rating	Unit	Remark				
Power Dissipation	Р	200	mW	When surface mounting on 50 mm x 50 mm x 1.6 mmt P.C.B. (Glass Epoxy), refer to Figure 1				
Surge Reverse Power	Prsm	2.2	W	t_T = 10 μ s, 1 pulse, refer to Figure 4				
Junction Temperature	Tj	150	°C					
Storage Temperature	T _{stg}	-55 to +150	°C					

RECOMMENDED MOUNT PAD (Unit: mm)



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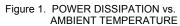
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Type Number	Breakdown Voltage V _{BR} (V) ^{Note}		Reverse Leakage I _R (μA)		Capacitance Ct (pF)		ESD Voltage (kV)		
	MIN.	MAX.	Iz (mA)	MAX.	V _R (V)	TYP.	Condition	MIN.	Condition
NNCD7.5MDT	6.5	8.5	5	0.5	3.5	10	V _R = 0 V, f = 1 MHz	30	C = 150 pF, R = 330 Ω

Note VBR is tested with pulse (40 ms).

TYPICAL CHARACTERISTICS (TA = 25°C)



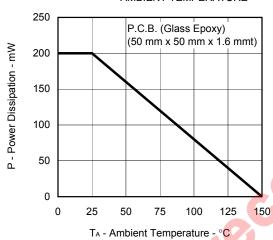
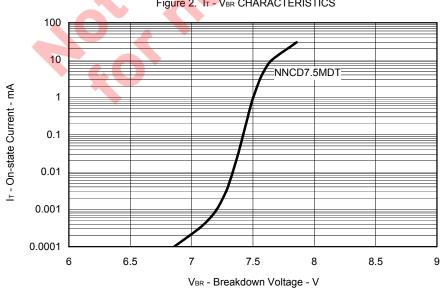


Figure 2. IT - VBR CHARACTERISTICS

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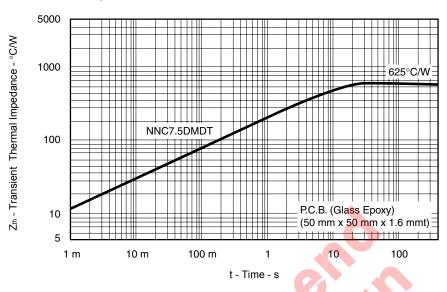
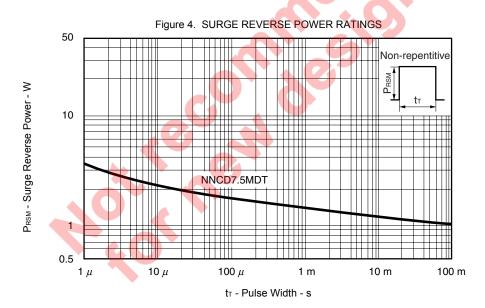


Figure 3. TRANSIENT THERMAL IMPEDANCE CHARACTERISTICS



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April 1st, 2010 Renesas Electronics Corporation

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