

NNCD6.8PG

LOW CAPACITANCE TYPE ELECTROSTATIC DISCHARGE NOISE CLIPPING DIODE (QUARTO TYPE: COMMON ANODE) 5-PIN MINI MOLD

DESCRIPTION

The NNCD6.8PG is a diode developed for ESD (Electrostatic Discharge) absorption. Based on the IEC-61000-4-2 test on electromagnetic interference (EMI), the diode assures an endurance of no less than 30 kV, thus making itself most suitable for external interface circuit protection.

With four elements mounted in the 5-PIN mini mold package, the product can cope with more high density assembling.

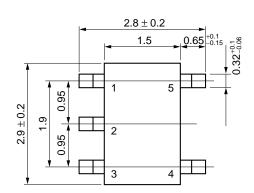
FEATURES

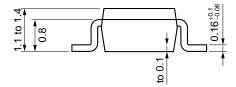
- Base on the electrostatic discharge immunity test (IEC 61000-4-2), the product assures the minimum endurance of 30 kV.
- With four elements in the MINI MOLD package, the product can achieve high density and automatic packaging.

APPLICATIONS

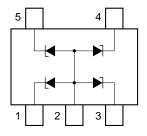
- External interface circuit ESD absorption
- Circuits for waveform clipper, surge absorber

PACKAGE DIMENSION (Unit: mm)





ELECTRODE CONNECTION



1: K1 Cathode 1 2: A Anode (common) 3: K2 Cathode 2

4: K3 Cathode 3 5: K4 Cathode 4

MAXIMUM RATINGS (TA = 25°C)

= 0 0											
ITEM	SYMBOL	RATING	UNIT	REMARK							
Power Dissipation	Р	200	mW	Total							
Surge Reverse Power	Prsm	85 (t = 10 μ s 1 pulse)	W								
Junction Temperature	Tj	150	°C								
Storage Temperature	Tstg	-55 to +150	°C								

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ELECTRICAL CHARACTERISTICS (TA = 25°C) (A to K1, A to K2, A to K3, A to K4)

TYPE No.	BREAKDOWN		CAPACITANCE		REVERSE		DYNAMIC		ESD		
	VOLTAGE Note1				LEAKAGE		IMPEDANCE Note2		VOLTAGE Note3		
	V _{BR} (V)		Ct (pF)		IR (μA)		Z _z (Ω)		(kV)		
	MIN.	MAX.	I⊤ (mA)	TYP.	Condition	MAX.	V _R (V)	MAX.	I⊤ (mA)	MIN.	Condition
											C = 150 pF
					V _R = 0 V						R = 330 Ω
NNCD6.8PG	6.2 7	7.1	.1 5	90	f = 1 MHz	2	3.5	40	5	30	Contact
											discharge

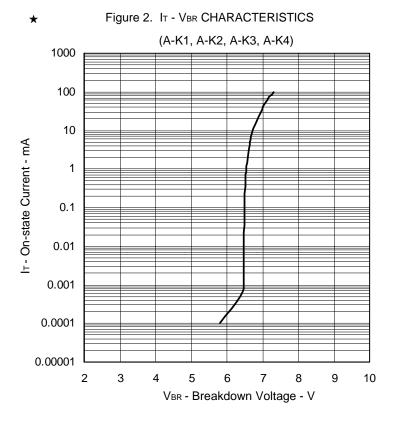
Notes 1. Tested with pulse (40 ms)

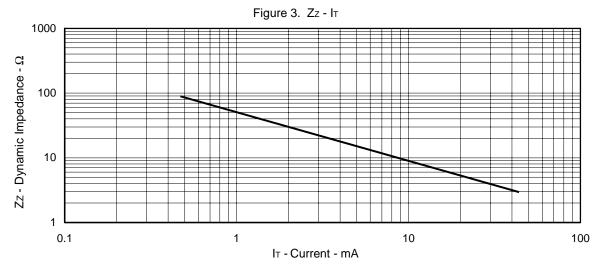
- 2. Z_z is measured at I_T given a small A.C. signal.
- 3. Based upon with IEC 61000-4-2

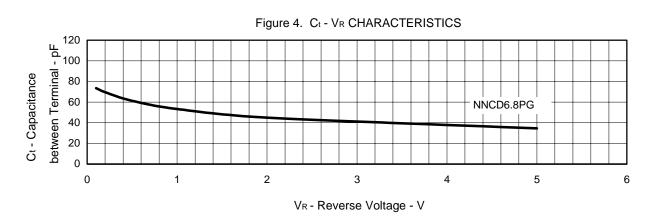
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TYPICAL CHARACTERISTICS (TA = 25°C)

Figure 1. POWER DISSIPATION vs. AMBIENT TEMPERATURE P - Power Dissipation - mW T_{A} - Ambient Temperature - $^{\circ}\text{C}$







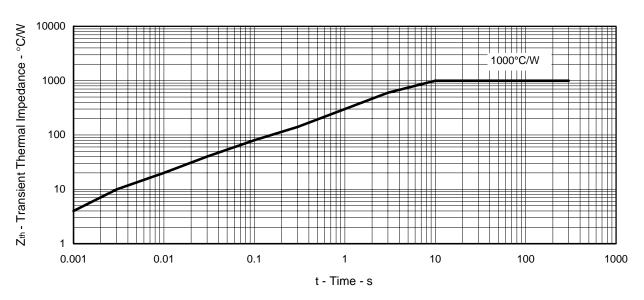
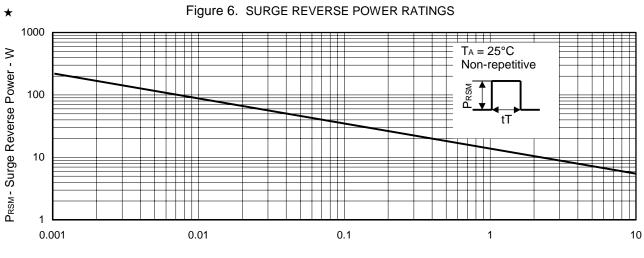


Figure 5. TRANSIENT THERMAL IMPEDANCE CHARACTERISTICS



tT - Pulse Width - ms

NEC NNCD6.8PG

[MEMO]

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