

Features

- Transient protection for data lines to IEC 61000-4-2(ESD) 15KV(air), 8KV(contact)
- Small package for use in portable electronics
- Bidirectional type pin configuration structure.
- Protects one I/O or power line.

Applications

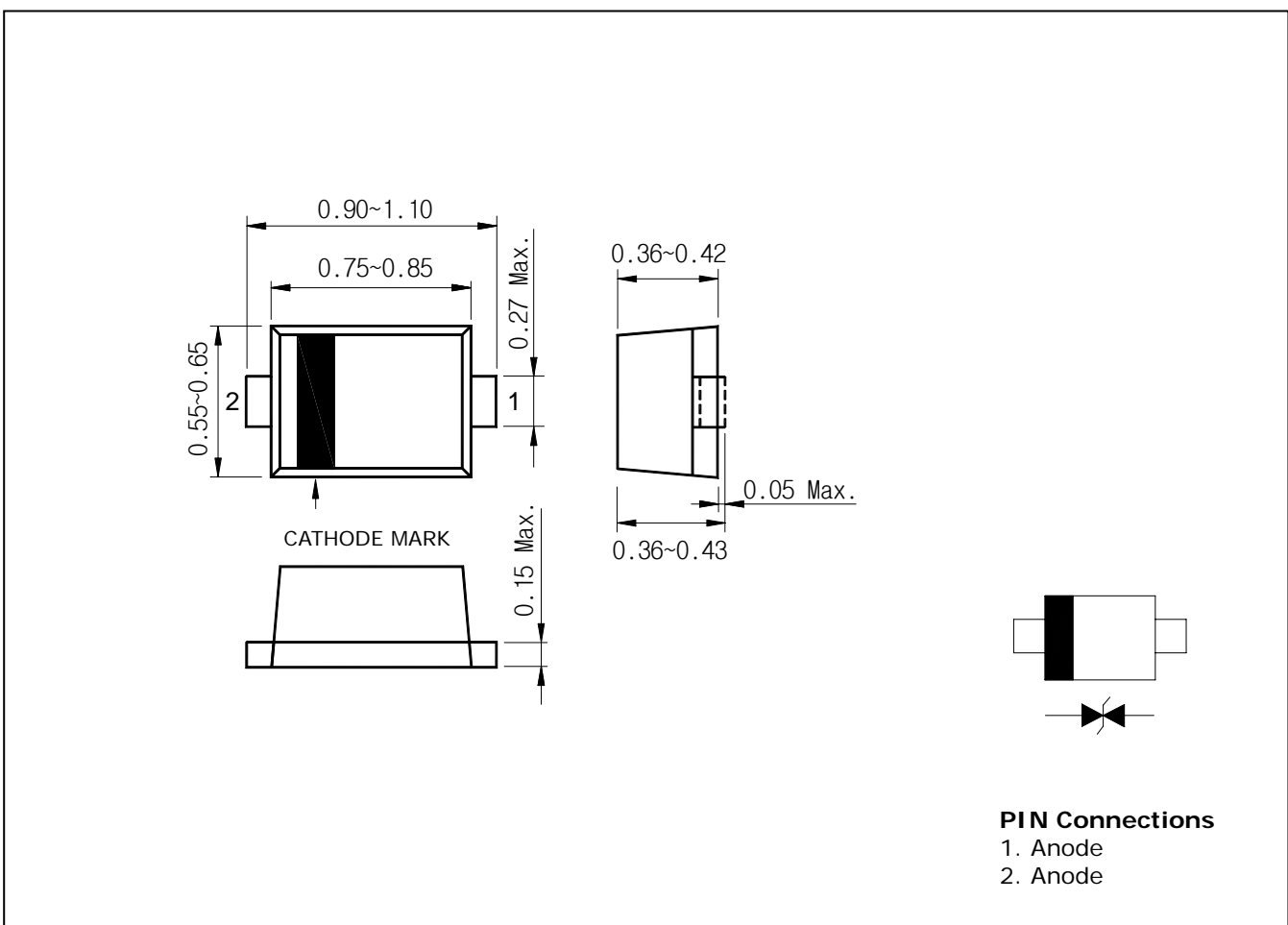
- Noise suppression on signal line

Ordering Information

Type NO.	Marking	Package Code
NDB171	B	SOD-923

Outline Dimensions

unit : mm



Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Peak Pulse Power (tp = 8/20 μs)	P _{PK}	100	W
Power dissipation	P _D	100	mW
Junction temperature	T _J	150	°C
Storage temperature range	T _{STG}	-55 ~ +150	°C

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Zener voltage	V _Z	I _Z =1mA	5.78	-	7.82	V
Reverse current	I _R	V _R =3.5V	-	-	0.5	μA
Total capacitance	C _J	V _R =0V, f=1MHz	-	25	-	pF

※ Note. Pin 1 should be connected directly to a ground plane on the board

※ Recommend PCB solder land (Unit : mm)

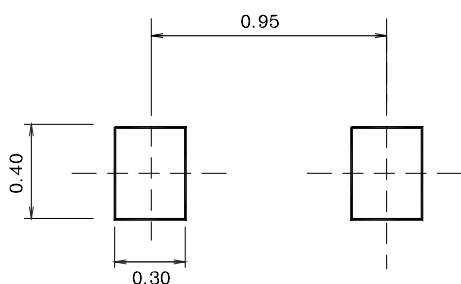


Fig. 1 V_Z-I_Z

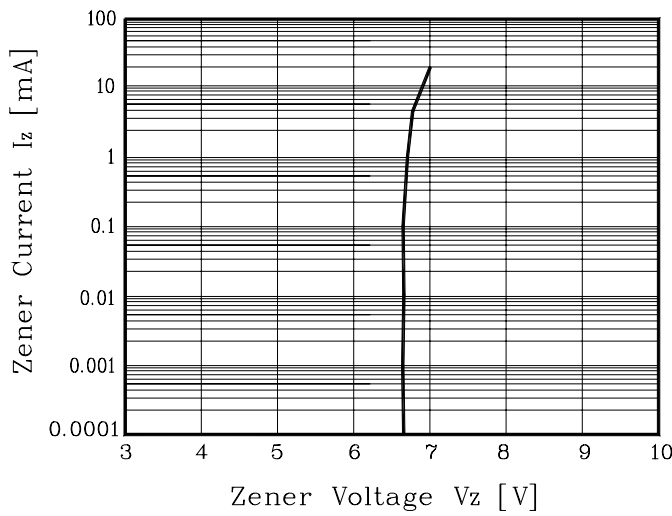


Fig. 2 I_R-V_R

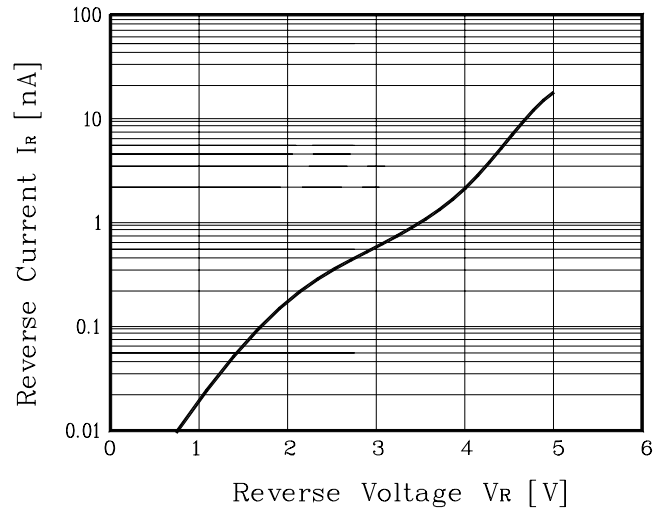
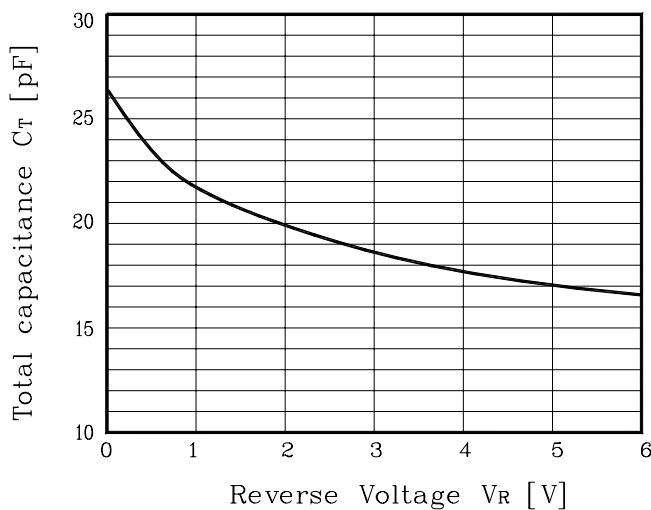


Fig. 3 C_T-V_R



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