

**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**

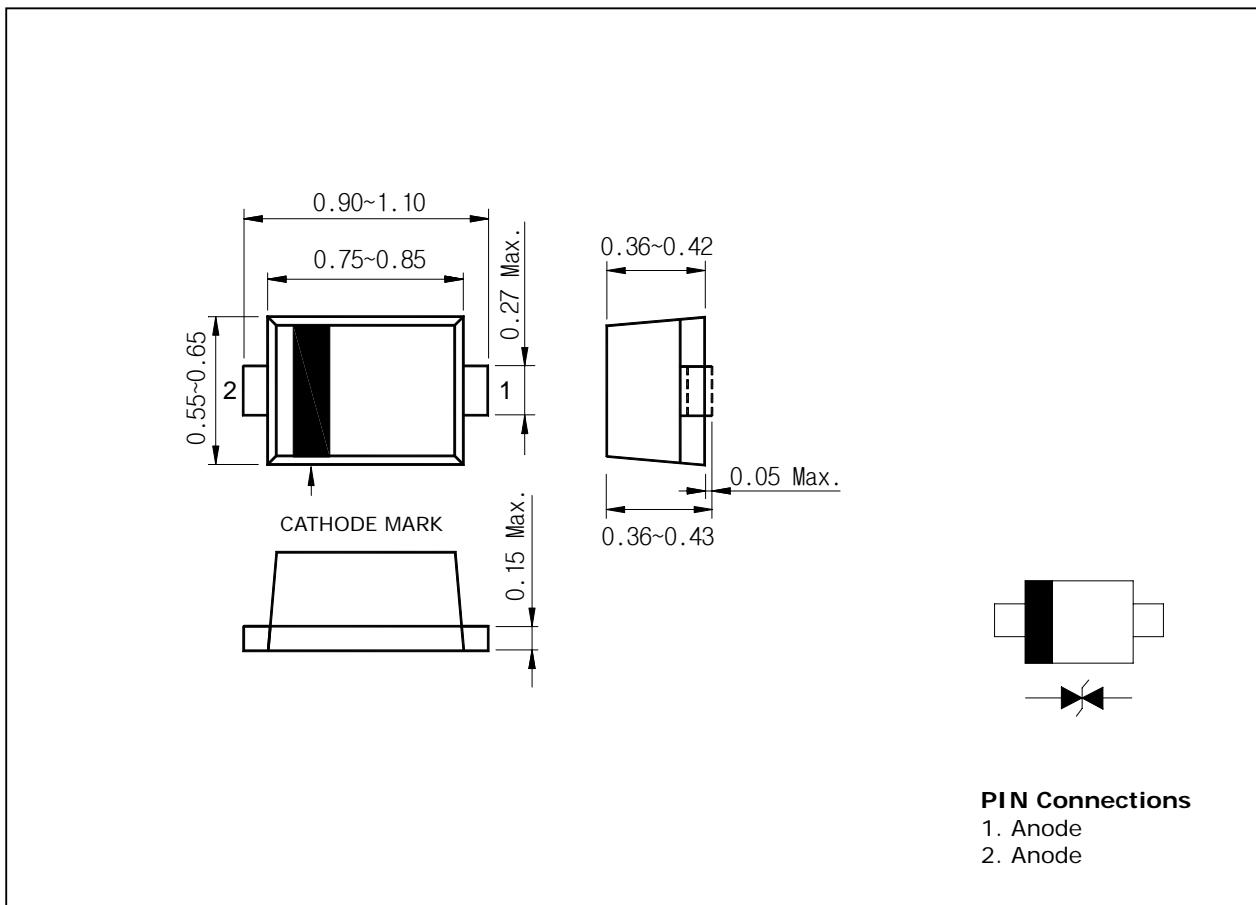
- Noise suppression on signal line

**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 <sub>PK</sub>	100	W
Power dissipation	P <sub>D</sub>	100	mW
Junction temperature	T <sub>J</sub>	150	°C
Storage temperature range	T <sub>STG</sub>	-55 ~ +150	°C

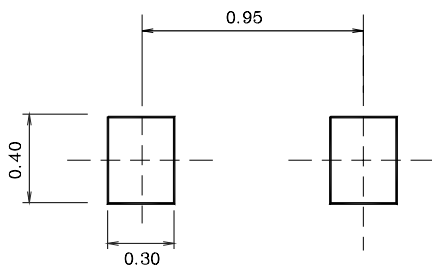
## Electrical Characteristics

(Ta=25°C)

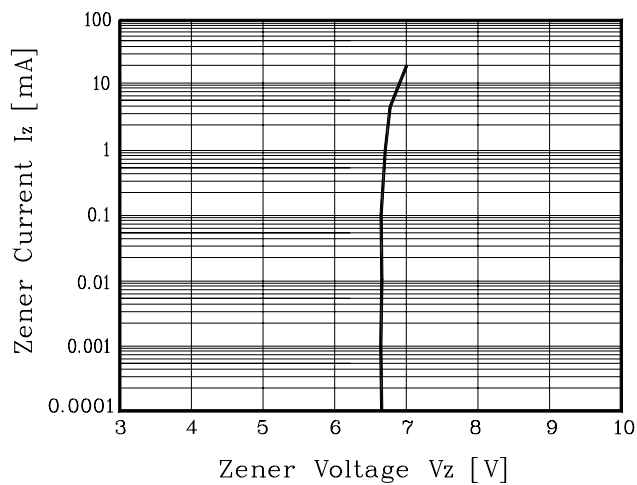
Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Zener voltage	V <sub>Z</sub>	I <sub>Z</sub> =1mA	5.78	-	7.82	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =3.5V	-	-	0.5	μA
Total capacitance	C <sub>J</sub>	V <sub>R</sub> =0V, f=1MHz	-	25	-	pF

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

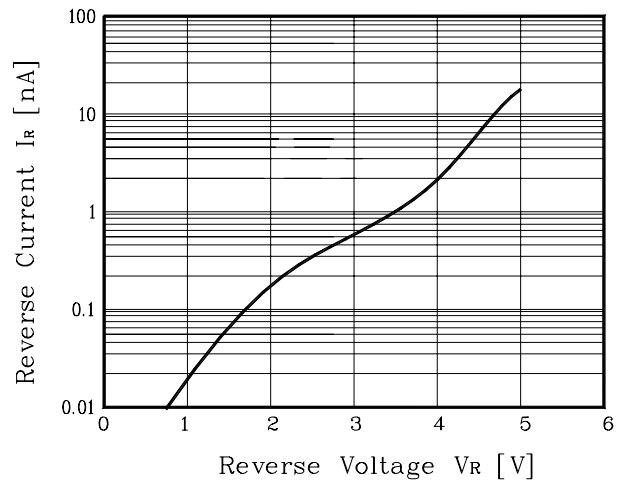
※ **Recommend PCB solder land (Unit : mm)**



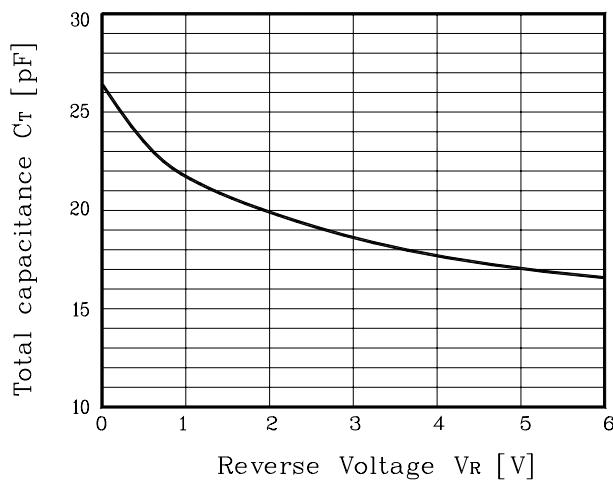
**Fig. 1  $V_Z$ - $I_Z$**



**Fig. 2  $I_R$ - $V_R$**



**Fig. 3  $C_T$ - $V_R$**



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