

## 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

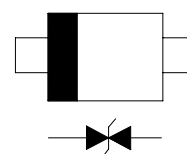
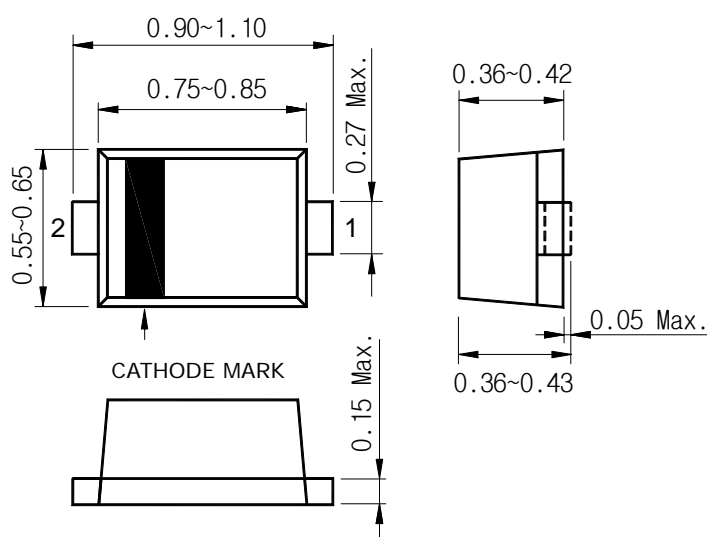
- Noise suppression on signal line

## Ordering Information

Type NO.	Marking	Package Code
NDB171	B	SOD-923

## Outline Dimensions

unit : mm



### PIN Connections

1. Anode
2. Anode

**Absolute Maximum Ratings**

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Peak Pulse Power ( $t_p = 8/20 \mu s$ )	$P_{PK}$	100	W
Power dissipation	$P_D$	100	mW
Junction temperature	$T_J$	150	°C
Storage temperature range	$T_{STG}$	-55 ~ +150	°C

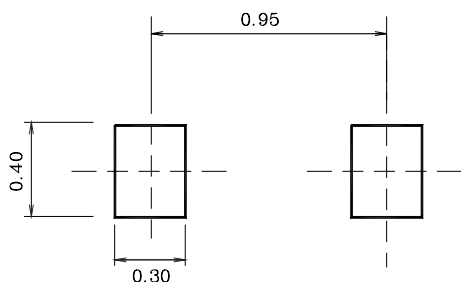
**Electrical Characteristics**

(Ta=25°C)

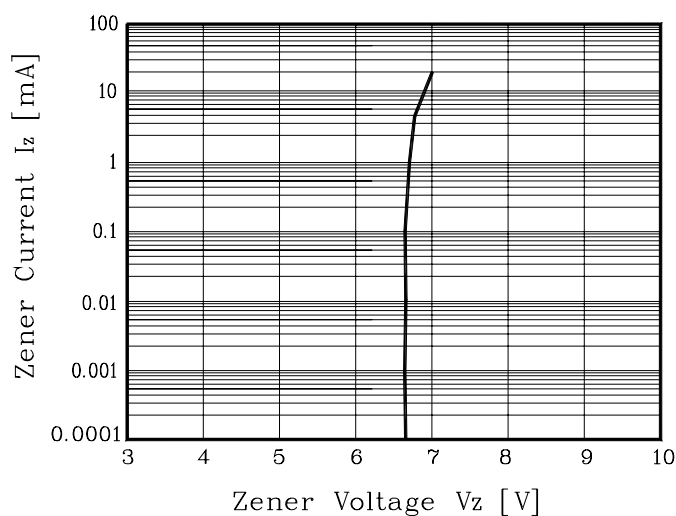
Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Zener voltage	$V_Z$	$I_Z=1mA$	5.78	-	7.82	V
Reverse current	$I_R$	$V_R=3.5V$	-	-	0.5	$\mu A$
Total capacitance	$C_J$	$V_R=0V, f=1MHz$	-	25	-	pF

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

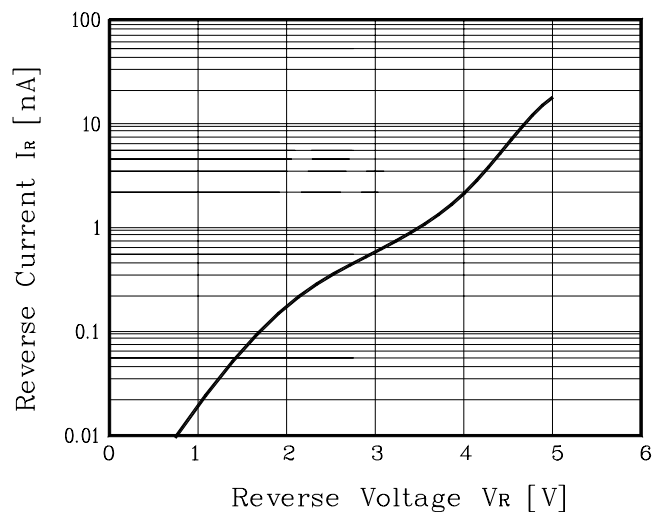
※ **Recommend PCB solder land (Unit : mm)**



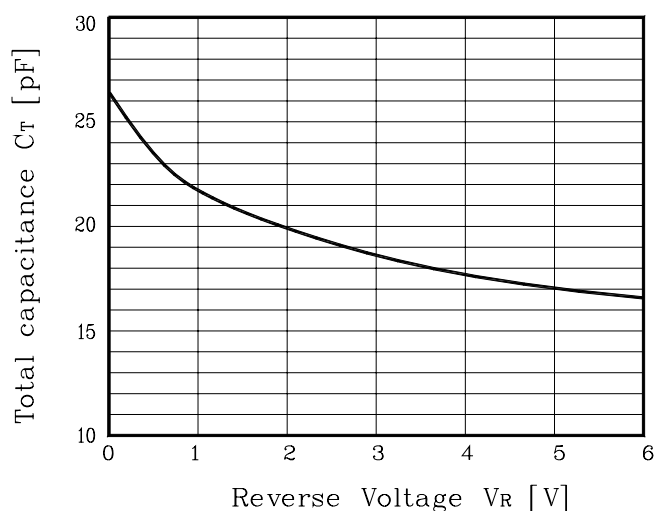
**Fig. 1  $V_Z-I_Z$**



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



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



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