

### Features

- Transient protection for data lines to **IEC 61000-4-2(ESD) 15KV(air), 8KV(contact)**
- Small package for use in portable electronics

### Applications

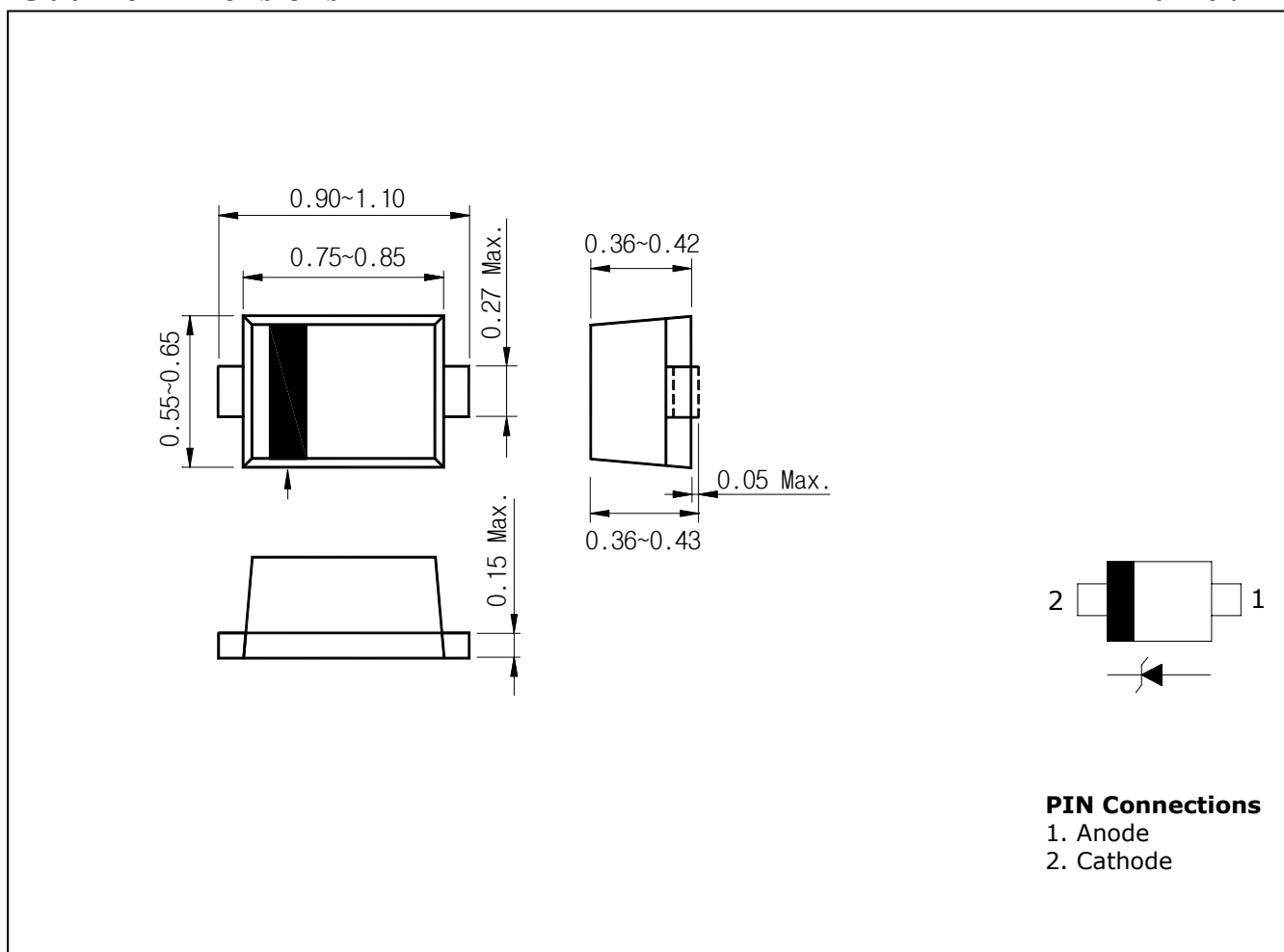
- ESD Protection

### Ordering Information

Type NO.	Marking	Package Code
ND171	U	SOD-923

### Outline Dimensions

unit : mm



### Absolute Maximum Ratings

Ta=25°C

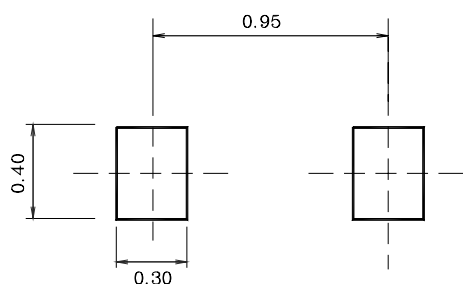
Characteristic	Symbol	Rating	Unit
Peak pulse power ( tp = 8/20 μs )	P <sub>PK</sub>	40	W
Power dissipation	P <sub>D</sub>	150	mW
Junction temperature	T <sub>j</sub>	150	°C
Operating temperature range	T <sub>opr</sub>	-55 ~ +125	°C
Storage temperature range	T <sub>stg</sub>	-55 ~ +150	°C

### Electrical Characteristics

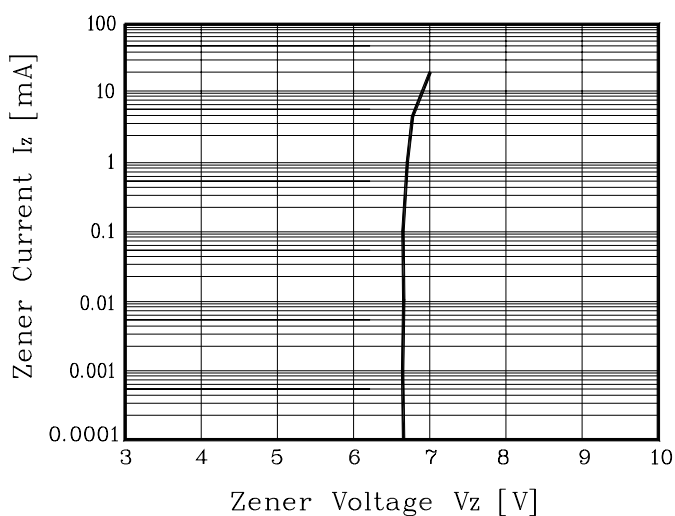
Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit	
Zener voltage	V <sub>Z</sub>	I <sub>Z</sub> =1mA	6.5	-	7.5	V	
Reverse current	I <sub>R</sub>	V <sub>R</sub> =3.5V	-	-	0.5	μA	
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =50mA	-	0.9	1.2	V	
ESD Voltage (IEC61000-4-2)	-	C=150pF, R=330Ω (Repeat by 10 times)	Contact	±8	-	-	KV
			Air	±15	-	-	
Junction capacitance	C <sub>j</sub>	V <sub>R</sub> =0V, f=1MHz	-	30	-	pF	

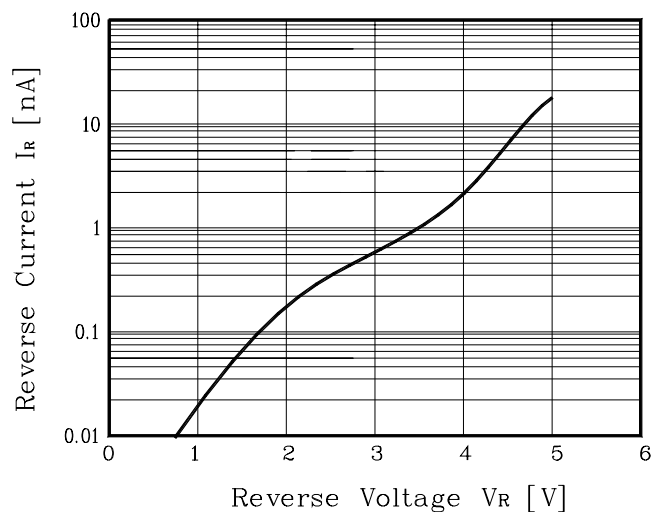
※ Recommend PCB solder land (Unit : mm)



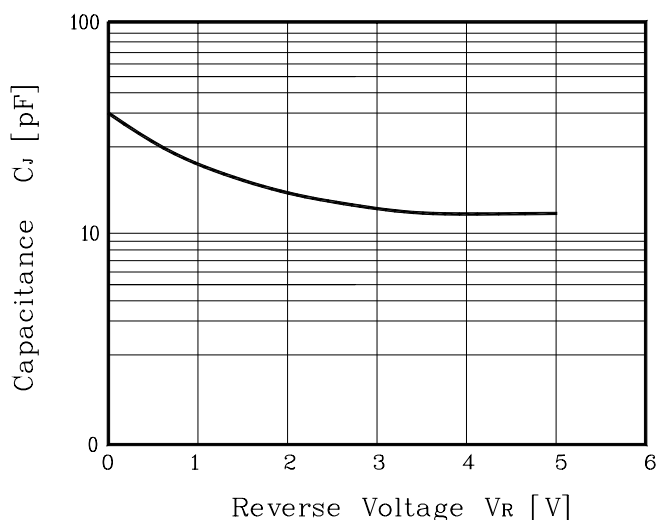
**Fig. 1  $V_Z-I_Z$**



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



**Fig. 3  $C_j-V_R$**



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