

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

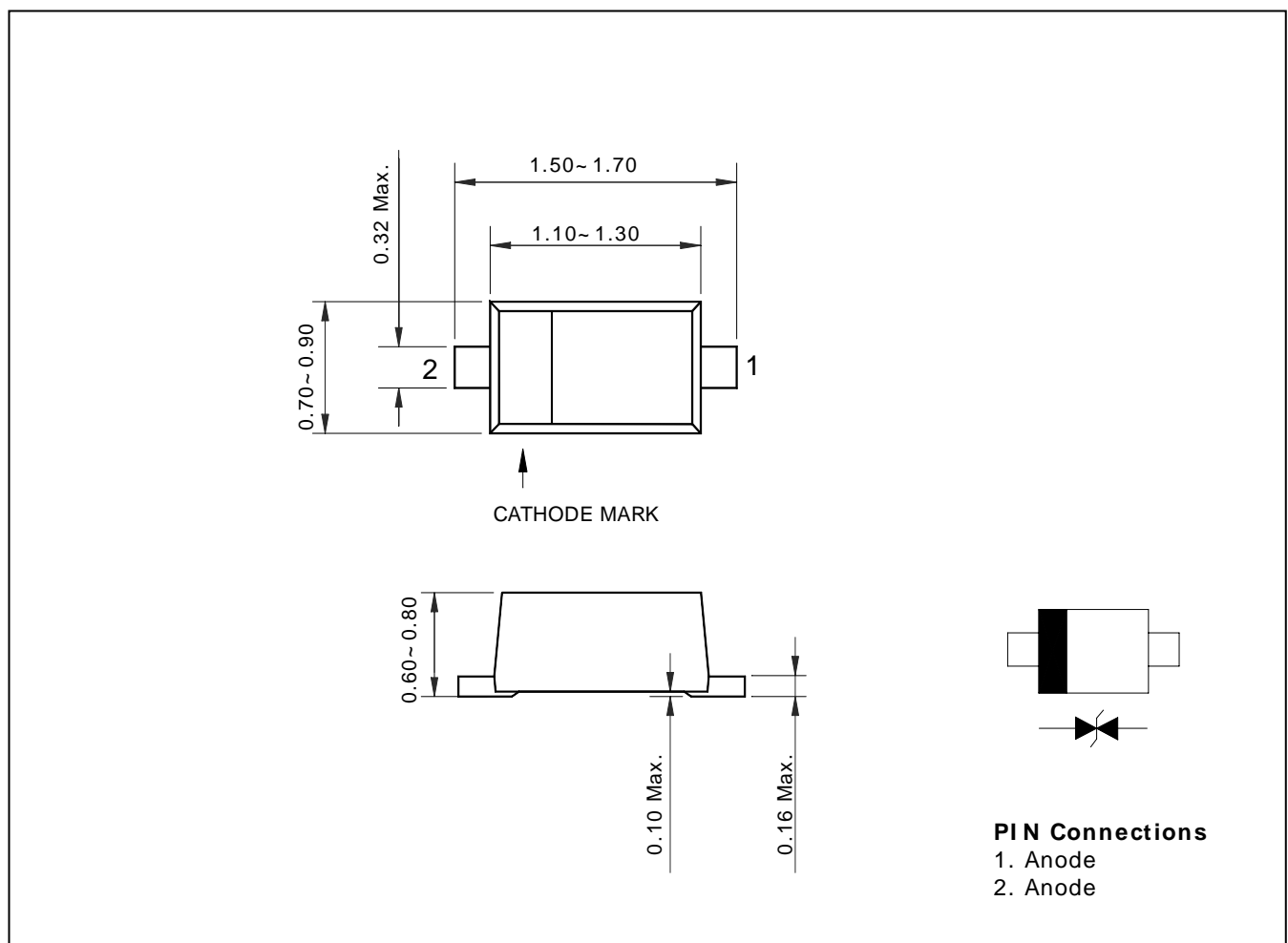
- ESD Protection

Ordering Information

Type NO.	Marking	Package Code
SDTB6D8Q	B6	SOD-523

Outline Dimensions

unit : mm



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	150	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	$I_Z = 1 \text{ mA}$	5.78	-	7.82	V
Reverse current	I_R	$V_R = 3.5 \text{ V}$	-	-	0.5	μA
Total capacitance	C_T	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$	-	30	-	pF

Electrical Characteristic Curves

Fig. 1 V_Z-I_Z

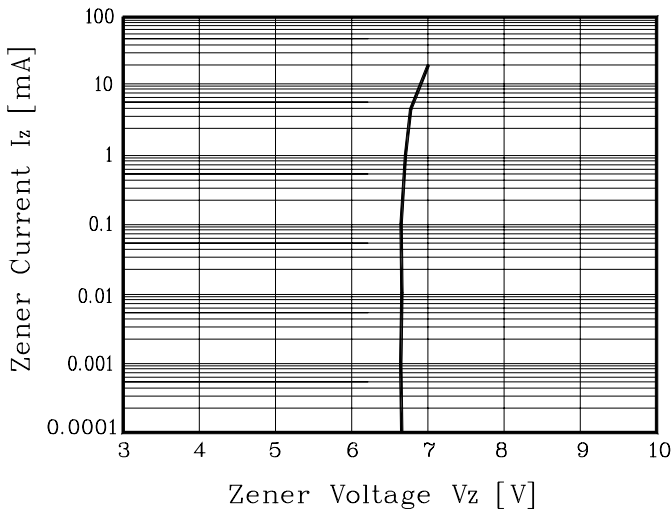


Fig. 2 I_R-V_R

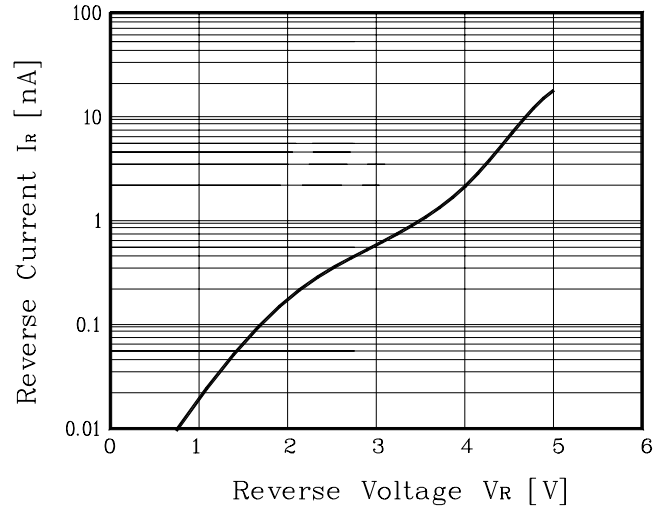
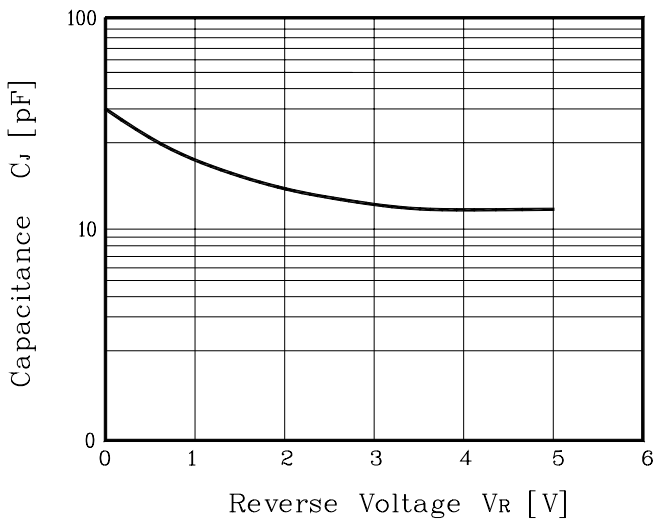


Fig. 3 C_j-V_R



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