

### Features

- Transient protection for data lines to **IEC 61000-4-2(ESD) 15KV(air), 8KV(contact)**
- Small package for use in portable electronics
- Protection one I/O or power line.
- Low leakage current

### Applications

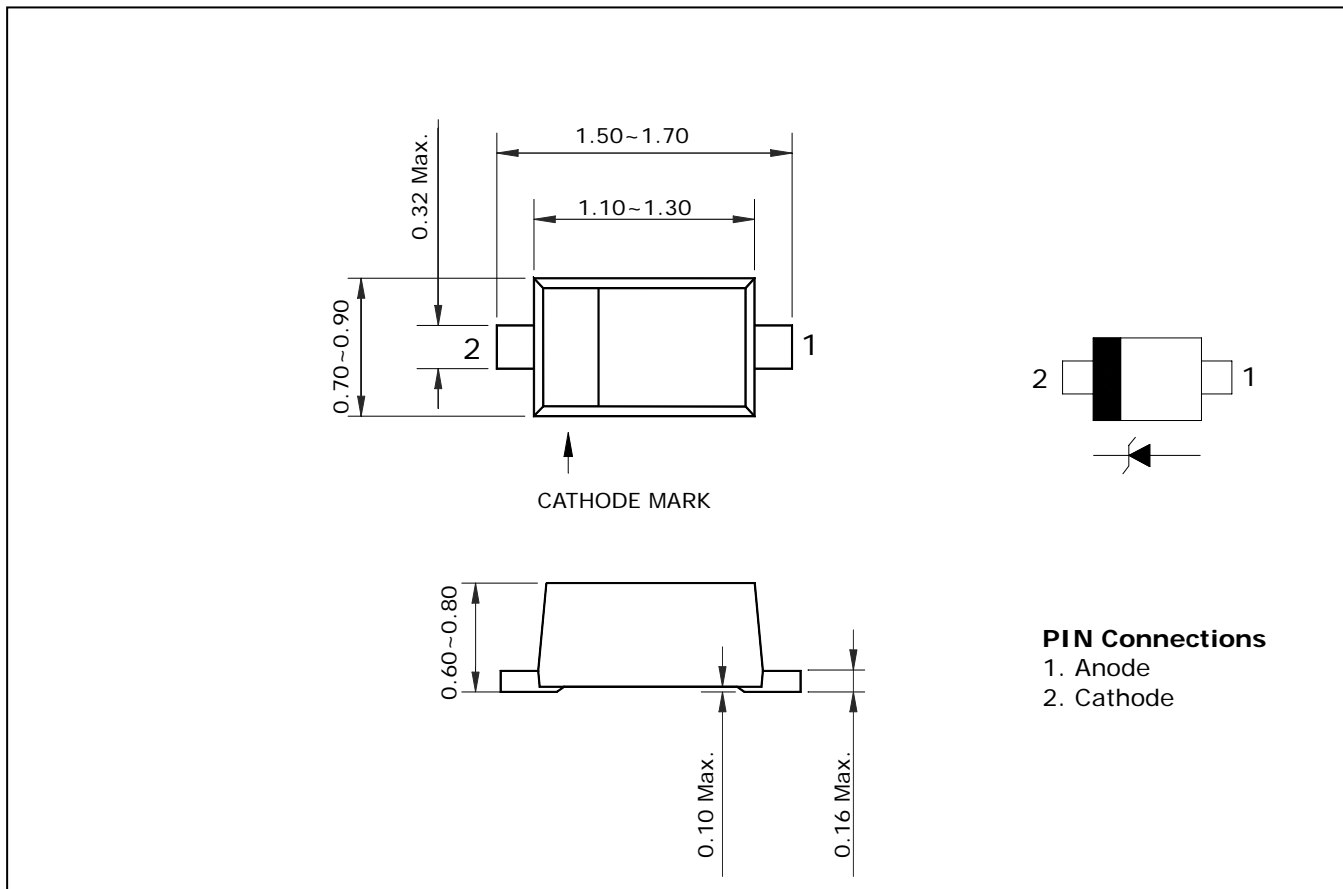
- ESD Protection

### Ordering Information

Type NO.	Marking	Package Code
SDT6B2Q	W2	SOD-523

### Outline Dimensions

unit : mm



### Absolute Maximum Ratings

(Ta=25°C)

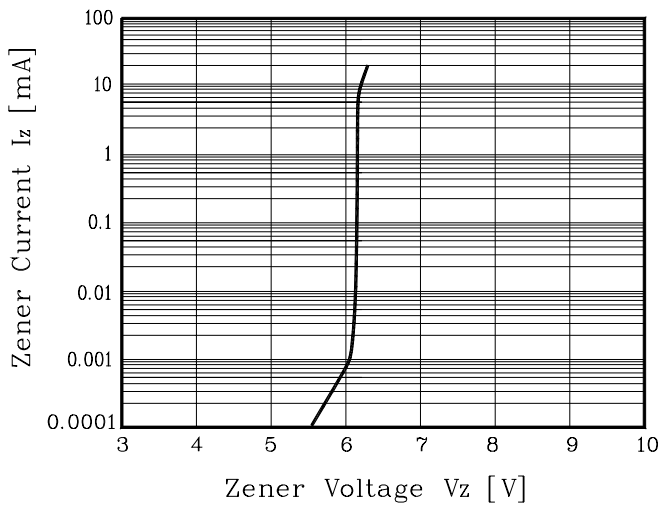
Characteristic	Symbol	Rating	Unit
Peak Pulse Power ( tp = 8/20 $\mu$ s )	P <sub>PK</sub>	100	W
Power dissipation	P <sub>D</sub>	150	mW
Junction temperature	T <sub>J</sub>	150	°C
Storage temperature range	T <sub>stg</sub>	-55 ~ +150	°C
Operating temperature range	T <sub>opr</sub>	-55 ~ +150	°C

### Electrical Characteristics

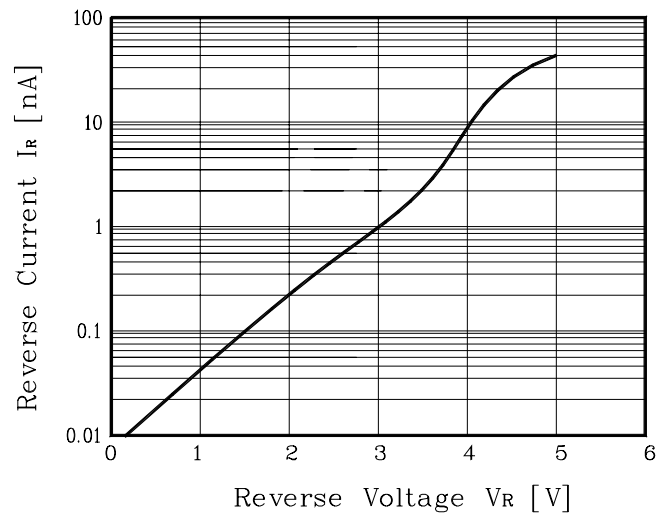
(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Zener voltage	V <sub>Z</sub>	I <sub>Z</sub> =1mA	5.7	-	6.7	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =3.0V	-	-	1	$\mu$ A
Total capacitance	C <sub>T</sub>	V <sub>R</sub> =0V, f=1MHz	-	20	-	pF

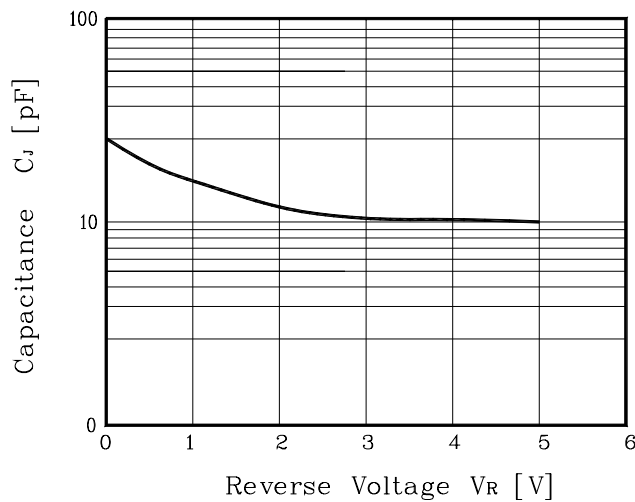
**Fig. 1  $V_Z-I_Z$**



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



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



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