AUK Semiconductor

SDT6B2Q

ESD Protection Diode

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

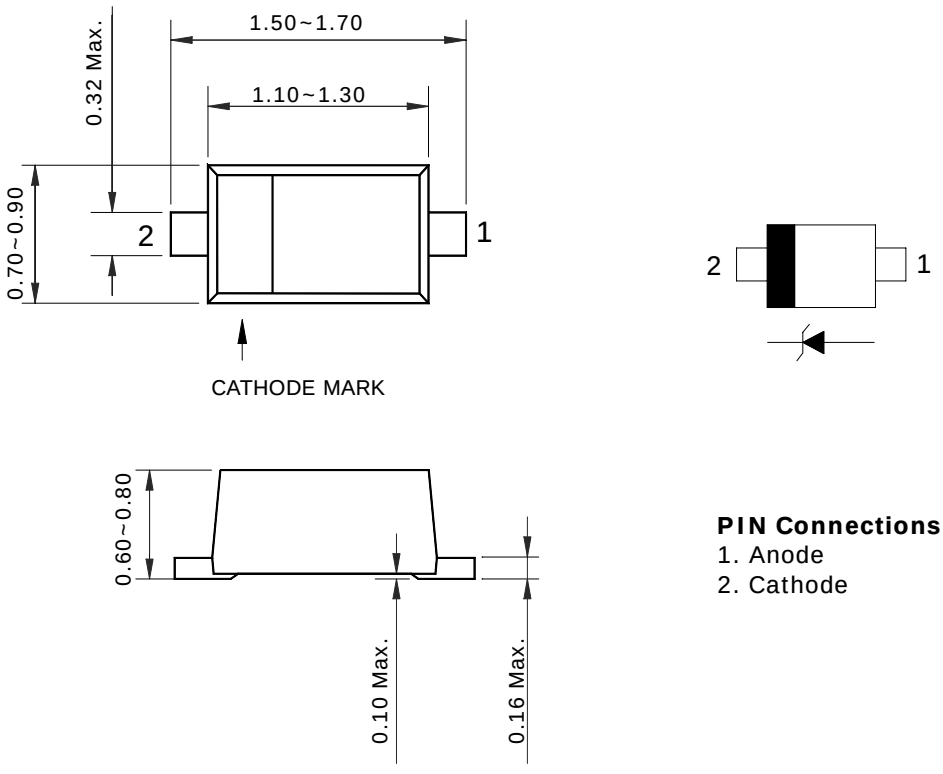
- ESD Protection

Ordering Information

Type NO.	Marking	Package Code
SDT6B2Q	W2	SOD-523

Outline Dimensions

unit : mm



PIN Connections
1. Anode
2. Cathode

SDT6B2Q

Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Peak Pulse Power (tp = 8/20 μs)	P_{PK}	100	W
Power dissipation	P_D	150	mW
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	-55 ~ +150	°C
Operating temperature range	T_{opr}	-55 ~ +150	°C

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Zener voltage	V_Z	I_Z=1mA	5.7	-	6.7	V
Reverse current	I_R	V_R=3.0V	-	-	1	μA
Total capacitance	C_T	V_R=0V, f=1MHz	-	20	-	pF

Fig. 1 V_Z-I_Z

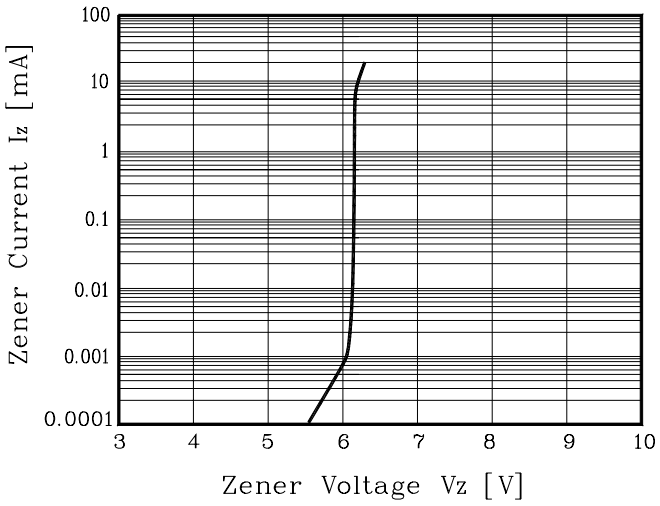


Fig. 2 I_R-V_R

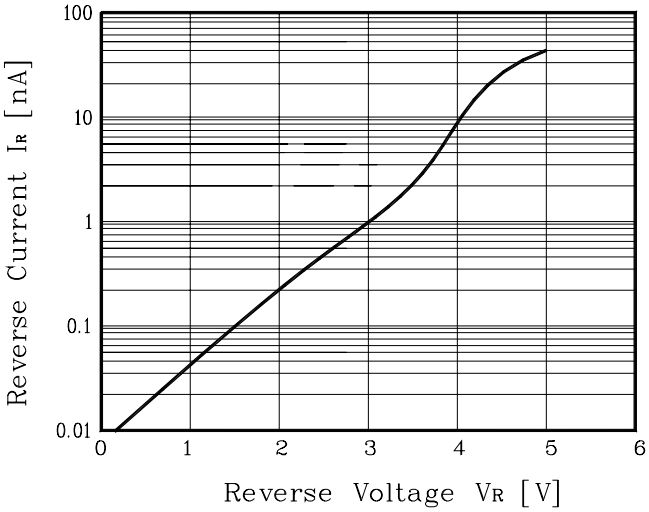
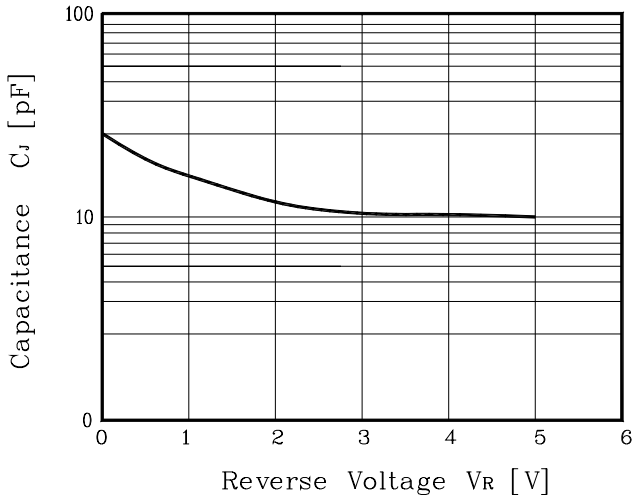


Fig. 3 C_j-V_R



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