

**Features**

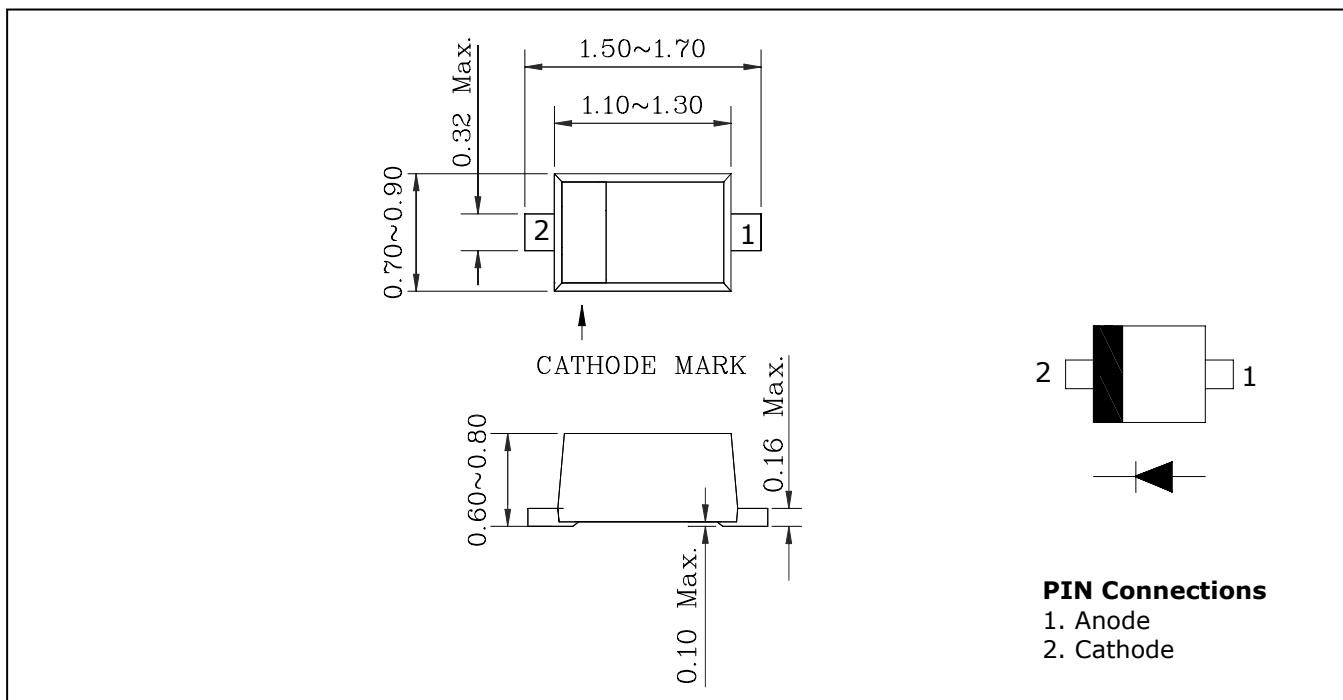
- Low forward voltage :  $V_F = \text{Max. } 0.4\text{V}$  (@  $I_F = 10\text{mA}$ )
- Low reverse current :  $I_R = \text{Max. } 0.5 \mu\text{A}$  (@  $V_R = 5\text{V}$ )
- High speed switching application

**Ordering Information**

Type No.	Marking	Package Code
SDB110Q	S3	SOD-523

**Outline Dimensions**


**unit : mm**



## Absolute maximum ratings

(Ta=25°C)

Characteristic	Symbol	Ratings	Unit
Reverse voltage	$V_R$	10	V
Non-repetitive peak surge current	$I_{FSM}^*$	2	A
Forward current	$I_F$	30	mA
Junction temperature	$T_j$	150	°C
Storage temperature range	$T_{stg}$	-55 ~ 150	°C

\* 60Hz for 1 

## Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage 1	$V_{F(1)}$	$I_F=1mA$	0.1	-	0.3	V
Forward voltage 2	$V_{F(2)}$	$I_F=10mA$	-	-	0.4	V
Forward voltage 3	$V_{F(3)}$	$I_F=30mA$	-	-	0.5	V
Reverse current 1	$I_{R(1)}$	$V_R=5V$	-	-	0.5	$\mu A$
Reverse current 2	$I_{R(2)}$	$V_R=10V$	-	-	1	$\mu A$
Total capacitance	$C_T$	$V_R=5V, f=1MHz$	-	4.2	-	pF

Electrical Characteristic Curves

Fig. 1  $I_F$ - $V_F$

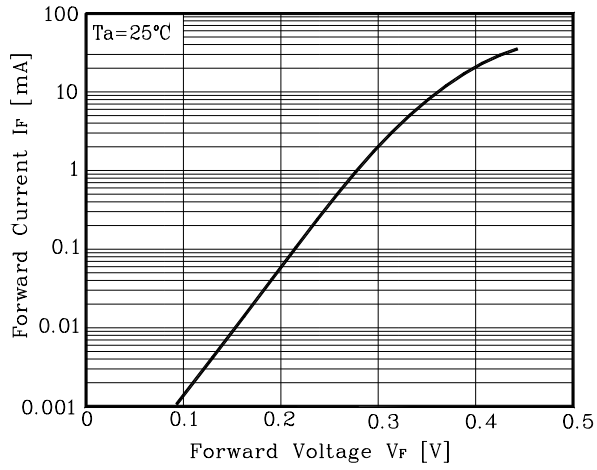


Fig. 2  $I_R$  - $V_R$

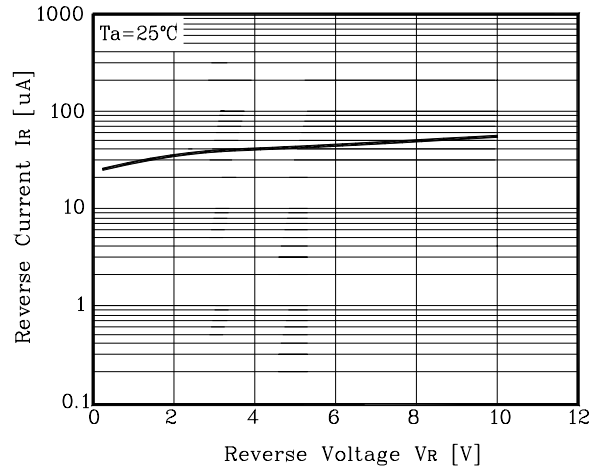
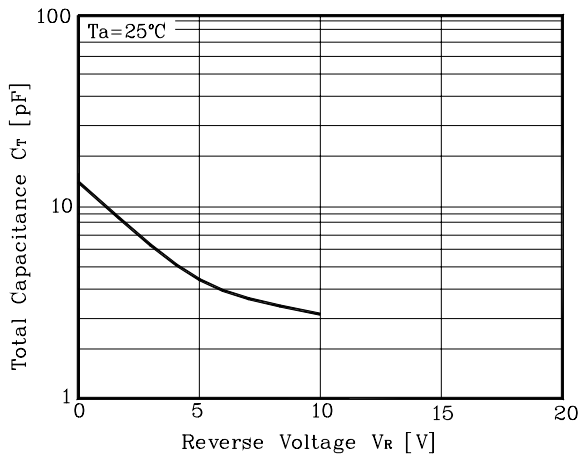


Fig. 3  $C_T$ - $V_R$



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