

Features

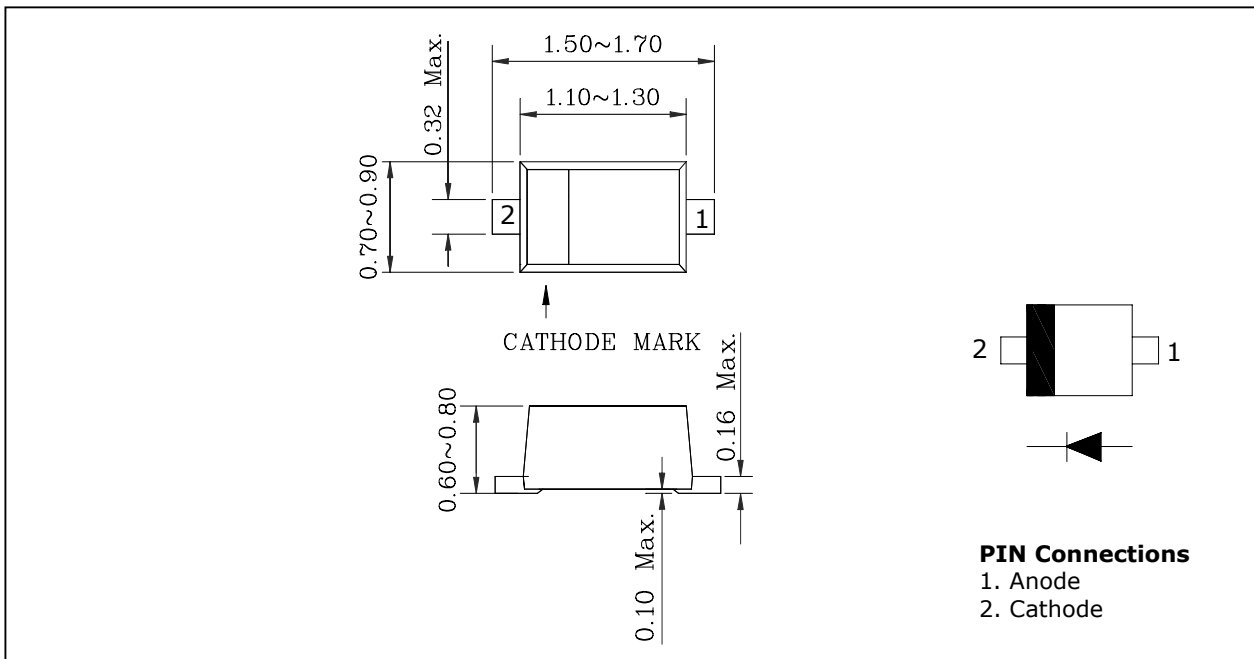
- Low forward voltage : $V_F = \text{Max. } 0.4\text{V}$ (@ $I_F = 10\text{mA}$)
- Low reverse current : $I_R = \text{Max. } 0.5 \mu\text{A}$ (@ $V_R = 5\text{V}$)
- High speed switching application

Ordering Information

Type No.	Marking	Package Code
SDB110Q	S3	SOD-523

Outline Dimensions

unit : mm




SDB110Q

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	μA
Reverse current 2	$I_{R(2)}$	$V_R=10V$	-	-	1	μA
Total capacitance	C_T	$V_R=5V, f=1MHz$	-	4.2	-	pF

Electrical Characteristic Curves

Fig. 1 $I_F - V_F$

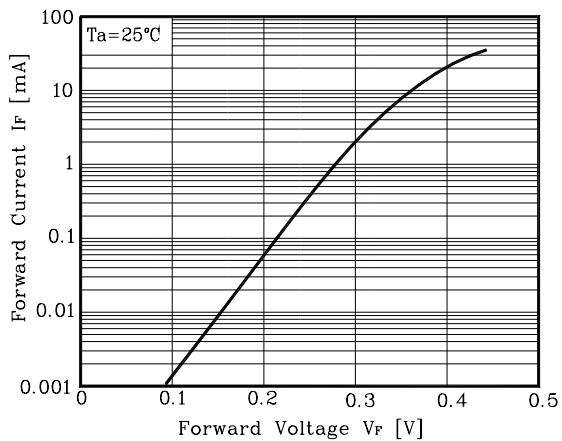


Fig. 2 $I_R - V_R$

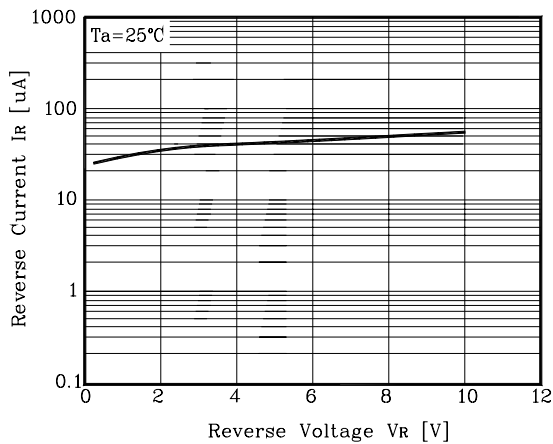
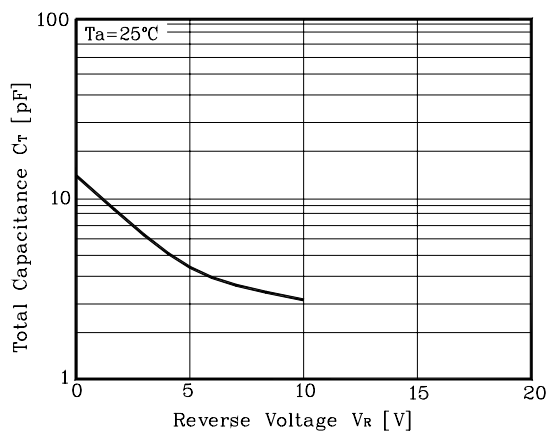


Fig. 3 $C_T - V_R$



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