

Applications

- High speed switching
- Low loss rectification

Features

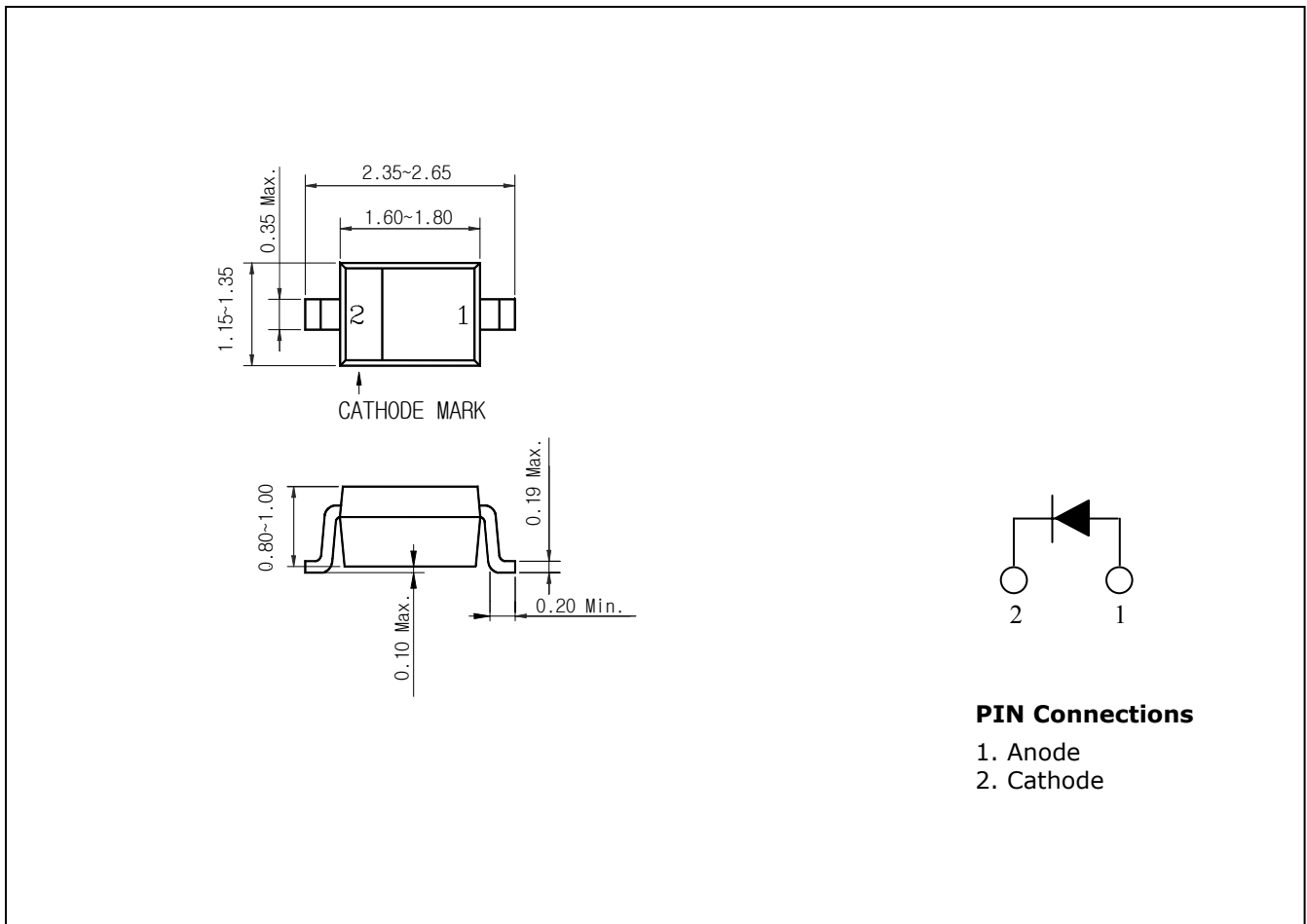
- Low forward voltage: $V_{FM}=0.47V$ Max @ $I_F=500mA$
- Small size package: SOD-323
- Large Forward current: $I_F=500mA$ Max.
- Low switching loss

Ordering Information

Type No.	Marking	Package Code
SDB0530	B5	SOD-323

Outline Dimensions

unit : mm



Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Peak reverse voltage	V_{RM}	30	V
Forward current	I_F	500	mA
Peak surge forward current (Non-repetitive 60Hz sine wave)	I_{FSM}	3	A
Power dissipation	P_D^{**}	200	mW
Junction temperature	T_J	150	°C
Storage temperature range	T_{stg}	-55 ~ 150	°C

※ Device mounted on glass epoxy PCB (recommanderable minimum solder land)

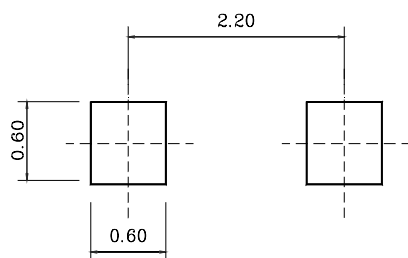
Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Peak forward voltage	V_{FM}^{**}	$I_F=100mA$	-	-	0.36	V
		$I_F=500mA$	-	-	0.47	V
Repetitive peak reverse current	I_{RRM}	$V_R=30V$	-	-	200	μA
Total capacitance	C_T	$V_R=10V, f=1.0MHz$	-	15.5	-	pF

※ Pulse test : $t_p \leq 380 \mu s$, Duty cycle $\leq 2\%$

※ Recommend PCB solder land [Unit: mm]



Electrical Characteristic Curves

Fig. 1 $I_F - V_F$

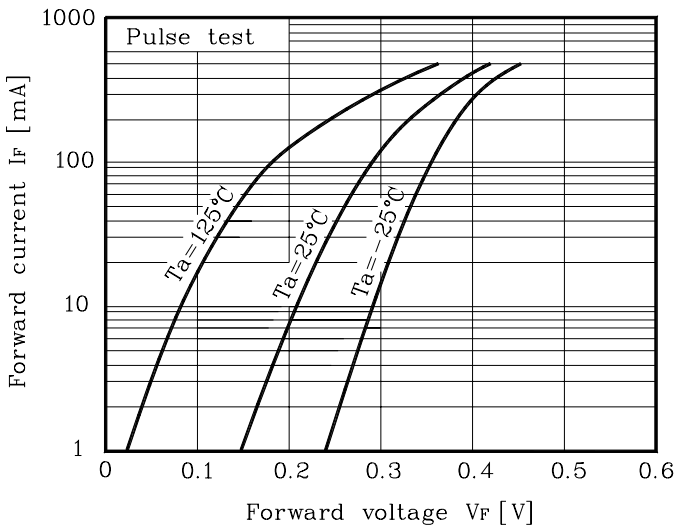


Fig. 2 $I_R - V_R$

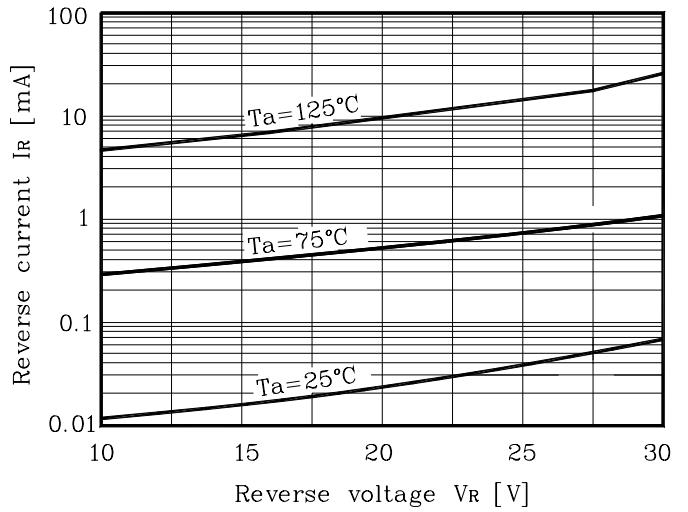
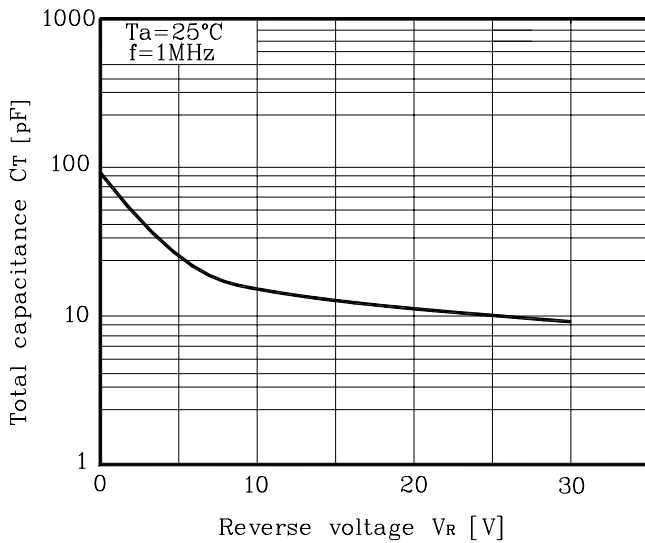


Fig. 3 $C_T - V_R$



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