



# SDB0530

Schottky Barrier Diode

## Applications

- High speed switching
- Low loss rectification

## Features

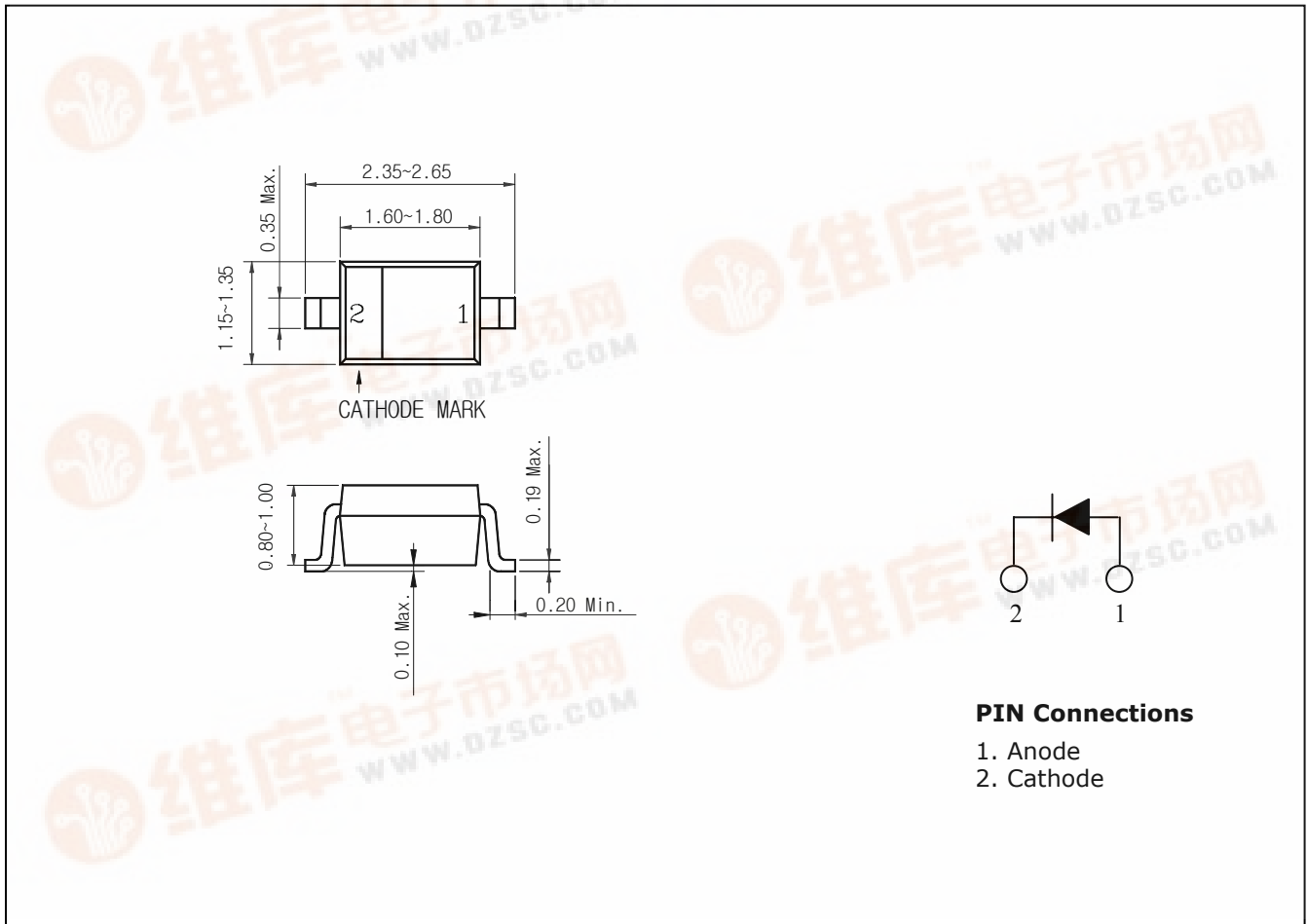
- Low forward voltage:  $V_{FM}=0.47V$  Max @  $I_F=500mA$
- Small size package: SOD-323
- Large Forward current:  $I_F=500mA$  Max.
- Low switching loss

## Ordering Information

Type No.	Marking	Package Code
SDB0530	B5	SOD-323

## Outline Dimensions

unit : mm



### PIN Connections

1. Anode
2. Cathode



## 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)

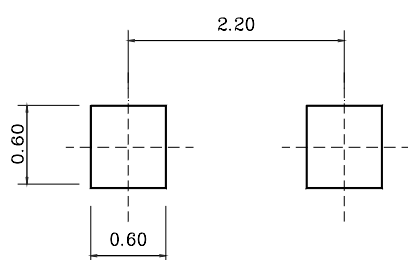
## Electrical Characteristics

(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	$\mu A$
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  $I_F - V_F$

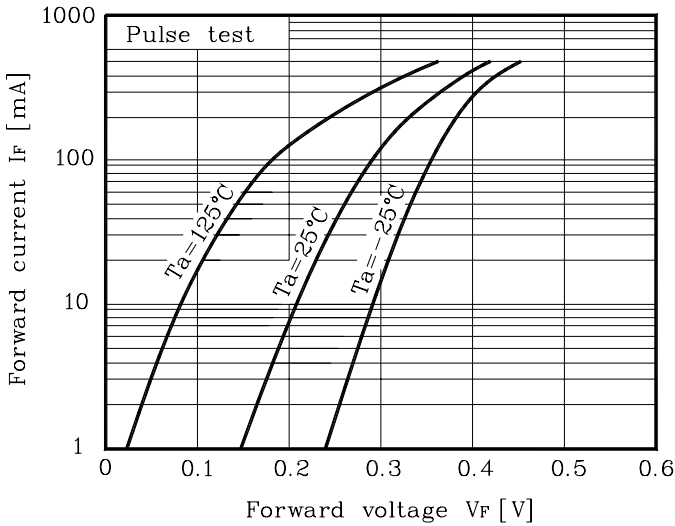


Fig. 2  $I_R - V_R$

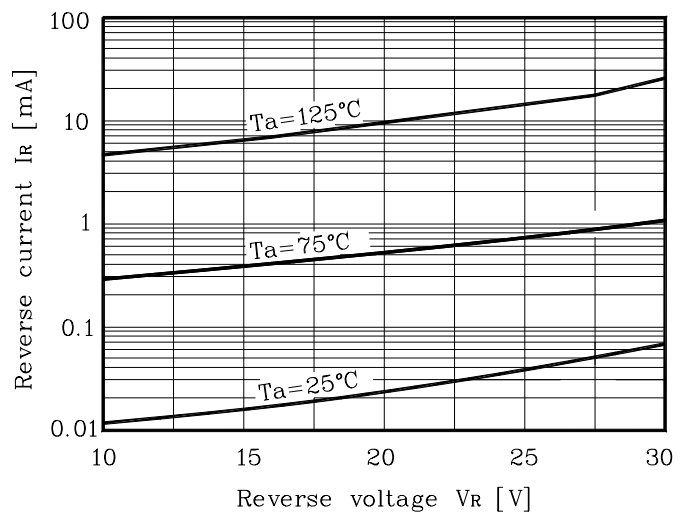
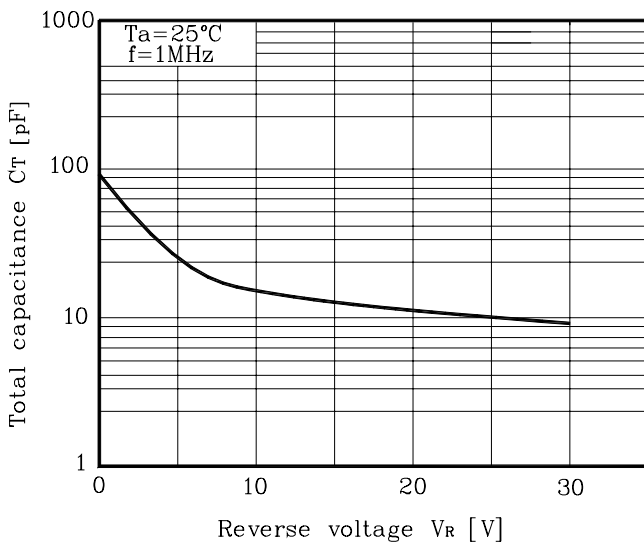


Fig. 3  $C_T - V_R$



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