

# SDB330B

**Schottky Barrier Diode** 

### **Applications**

- Portable equipment battery applications
- SMPS applications

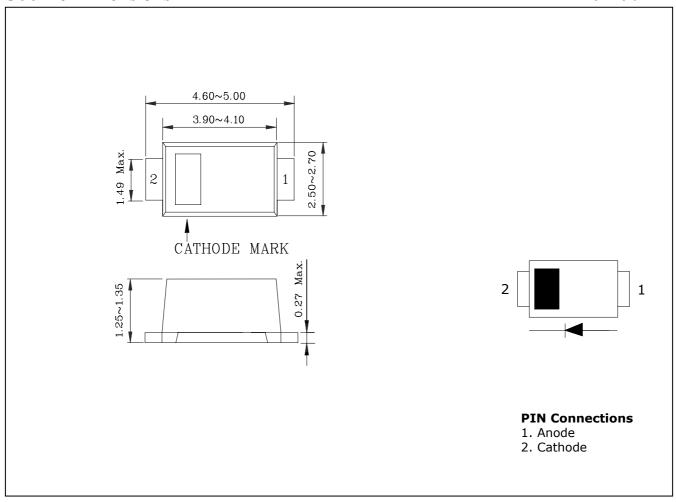
#### **Features**

- Low switching loss
- High reliability
- Very low reverse current:  $I_R$ =0.15mA Max. @  $V_R$ =30V
- Low forward voltage:  $V_F=0.5V$  Max. @  $I_F=3A$

## **Ordering Information**

Type No.	Marking	Package Code
SDB330B	3A30B	SOD-106

## Outline Dimensions unit: mm



KSD-D6A002-000

**Absolute Maximum Ratings** 

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Peak reverse voltage	$V_{RM}$	30	V
Reverse voltage	$V_R$	30	V
Forward current	$I_{F}$	3.0	А
Peak surge forward current (Non-repetitive 60Hz sine wave)	$I_{FSM}$	30	А
Junction temperature	T <sub>J</sub>	150	°C
Storage temperature range	$T_{stg}$	-55~150	°C

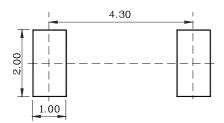
# **Electrical Characteristics**

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Forward voltage	V <sub>F</sub> 1)	$I_F=3A$	-	1	0.5	V
Reverse current	$I_{R}$	V <sub>R</sub> =30V	-	-	0.15	mA
Total capacitance	$C_T$	V <sub>R</sub> =10V, f=1MH <sub>Z</sub>	-	160	ı	pF
Thermal resistance	$R_{th}$	Junction to ambient 2)	-	-	76	°C/W

<sup>1)</sup> Pulse test :  $t_P \le 380 \,\mu\text{s}$ , Duty cycle  $\le 2\%$ 

### **\*** Recommend PCB solder land [Unit : mm]



<sup>2)</sup> Device mounted on glass epoxy PCB (recommanderable minimum solder land)

#### **Electrical Characteristic Curves**

Fig. 1  $I_F - V_F$ 10000 Forward current Ir (mA) 1000 100 10 100 400 500

Forward voltage VF (mV)

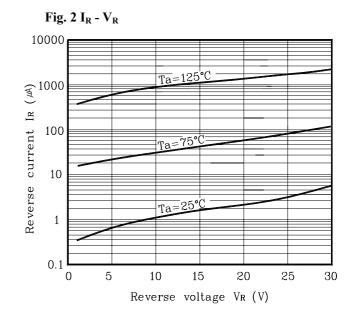
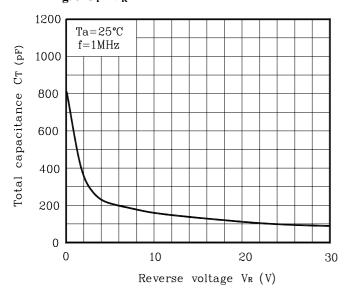


Fig. 3  $C_T$  -  $V_R$ 



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