

# **SDB130**

**Schottky Barrier Diode** 

### **Applications**

- Portable equipment battery applications
- SMPS applications

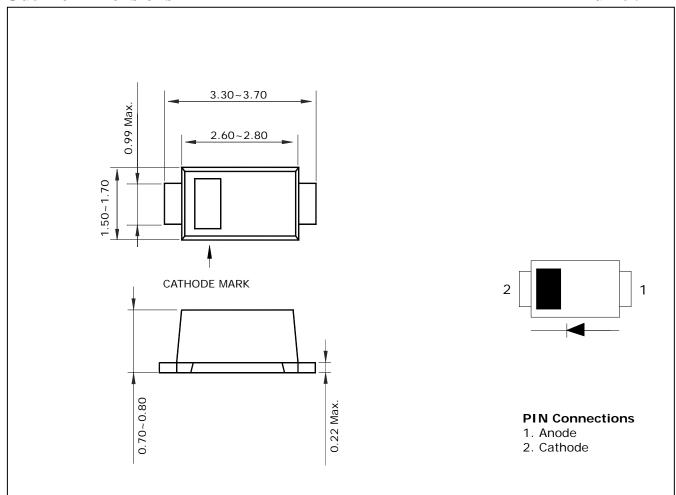
#### **Features**

- Very low forward voltage: VF=0.37Max.
- Low switching loss
- High reliability

### **Ordering Information**

Type No.	Marking	Package Code		
SDB130	1A3	SOD-123	_	

### Outline Dimensions unit: mm



KSD-D6B005-001

## **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 <sub>F</sub>	1.0	А
Peak surge forward current (Non-repetitive 60Hz sine wave)	I <sub>FSM</sub>	30	А
Junction temperature	Тл	150	°C
Storage temperature range	T <sub>stg</sub>	-55~150	°C

### **Electrical Characteristics**

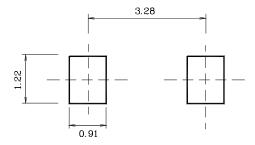
(Ta=25°C)

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Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Forward voltage	V <sub>F</sub> 1)	I <sub>F</sub> =1A	-	0.32	0.37	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =30V	1	-	2	mA
Total capacitance	$C_{T}$	$V_R=10V$ , $f=1MH_Z$	-	60	-	pF
Thermal resistance	$R_{th}$	Junction to ambient 2)	-	-	140	°C/W

- 1) Pulse test :  $t_P \le 380 \,\mu\text{s}$ , Duty cycle  $\le 2\%$
- 2) Device mounted on glass epoxy PCB (recommanderable minimum solder land)

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



#### **Electrical Characteristic Curves**

Fig. 1 I<sub>F</sub> - V<sub>F</sub>

1000

Pulse test

100

100

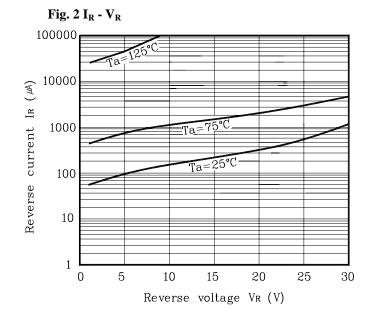
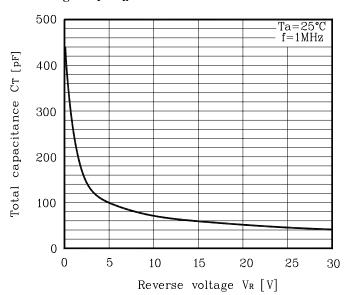


Fig. 3  $C_T - V_R$ 

100

0

Forward current Ir [mA]



200

300

Forward voltage V<sub>F</sub> [mV]

400

500

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