

**Applications**

- Portable equipment battery applications
- SMPS applications

**Features**

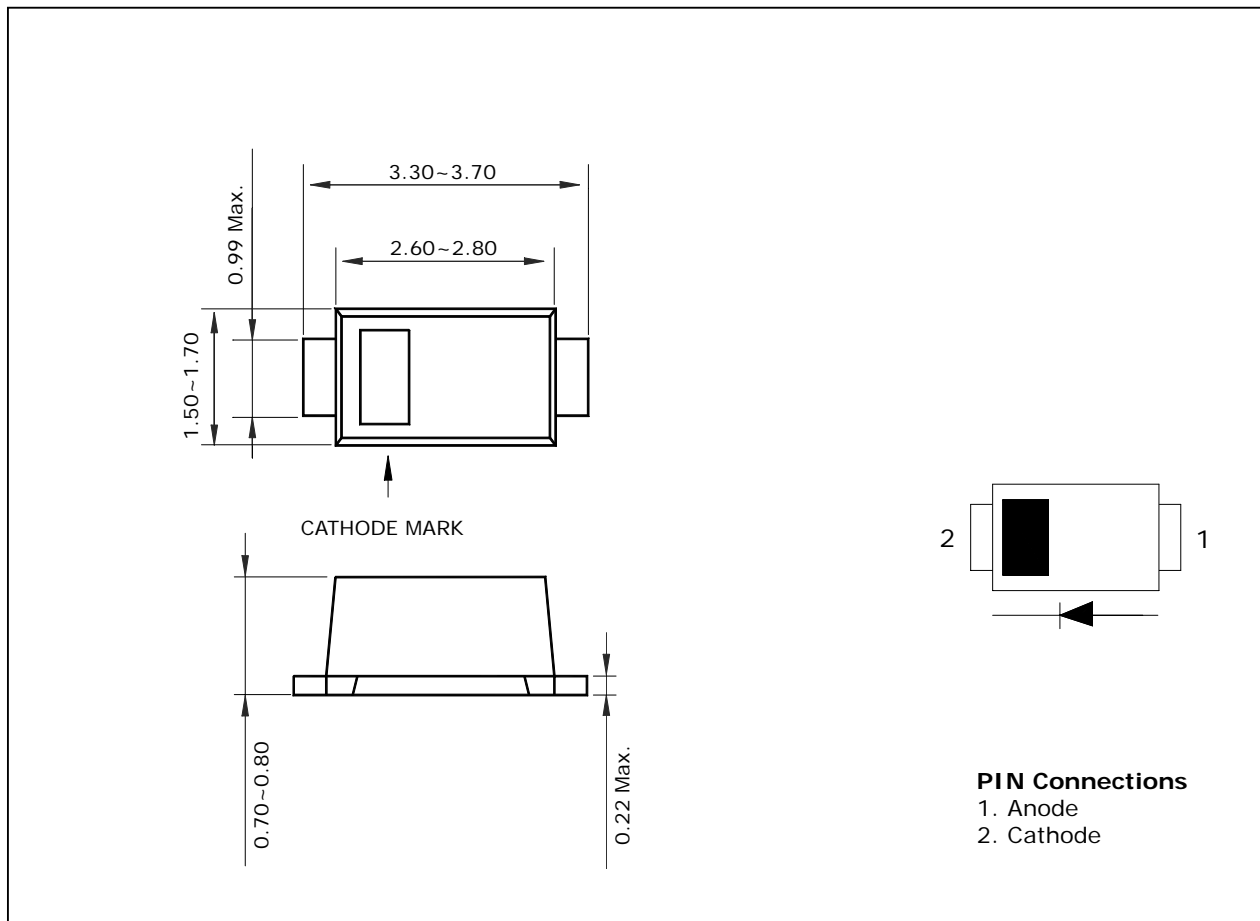
- Very low forward voltage:  $V_F=0.37\text{Max.}$
- Low switching loss
- High reliability

**Ordering Information**

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

**Outline Dimensions**

unit : mm



## 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	$I_F$	1.0	A
Peak surge forward current (Non-repetitive 60Hz sine wave)	$I_{FSM}$	30	A
Junction temperature	$T_J$	150	°C
Storage temperature range	$T_{stg}$	-55 ~ 150	°C

## Electrical Characteristics

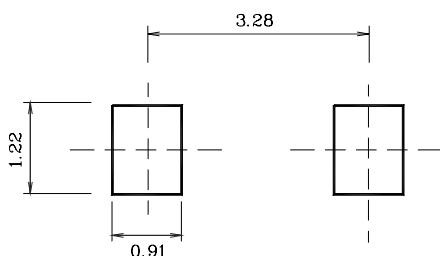
(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage	$V_F$ <sup>1)</sup>	$I_F=1A$	-	0.32	0.37	V
Reverse current	$I_R$	$V_R=30V$	-	-	2	mA
Total capacitance	$C_T$	$V_R=10V, f=1MHz$	-	60	-	pF
Thermal resistance	$R_{th}$	Junction to ambient <sup>2)</sup>	-	-	140	°C/W

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

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

※ Recommend PCB solder land [Unit: mm]



## Electrical Characteristic Curves

Fig. 1  $I_F - V_F$

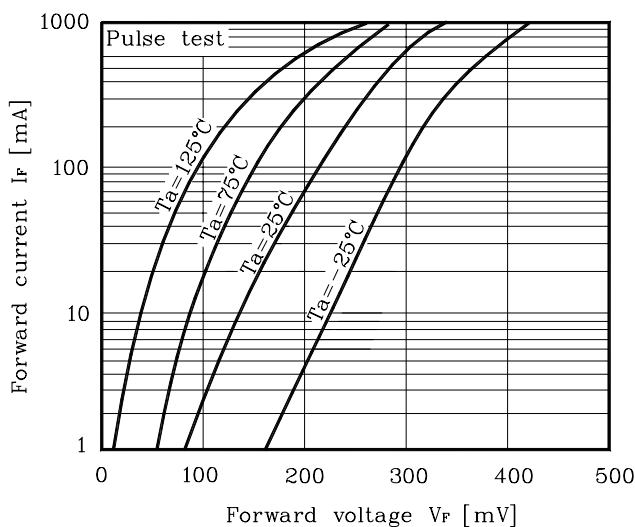


Fig. 2  $I_R - V_R$

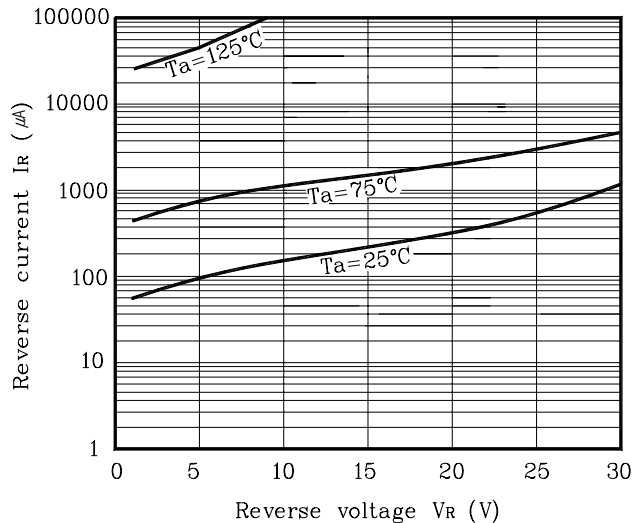
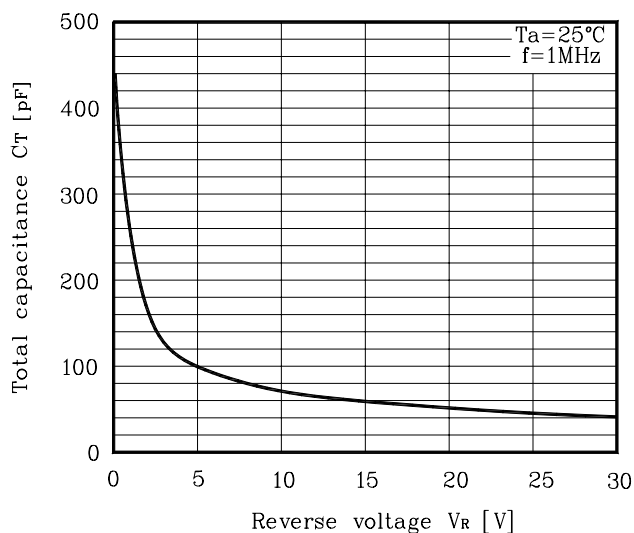


Fig. 3  $C_T - V_R$



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