

SDB130

Schottky Barrier Diode

Applications

- Portable equipment battery applications
- SMPS applications

Features

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

High reliability	255 TE	
Ordering Information	mation	
Type No.	Marking	Package Code
SDB130	1A3	SOD-123

Outline Dimensions

unit: mm WWW.DZSG.C 3.30~3.70 0.99 Max. 2.60~2.80 CATHODE MARK WWW.DZSC. 0.22 Max. **PIN Connections** 1. Anode 2. Cathode

KSD-D6B005-001

SDB130

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	А
Peak surge forward current (Non-repetitive 60Hz sine wave)	I _{FSM}	30	А
Junction temperature	TJ	150	°C
Storage temperature range	T _{stg}	-55~150	°C

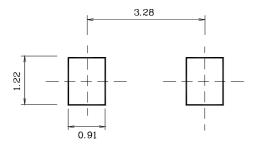
Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Forward voltage	$V_F^{1)}$	I _F =1A	-	0.32	0.37	V
Reverse current	I _R	V _R =30V	-	-	2	mA
Total capacitance	C_{T}	$V_R=10V$, $f=1MH_Z$	-	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

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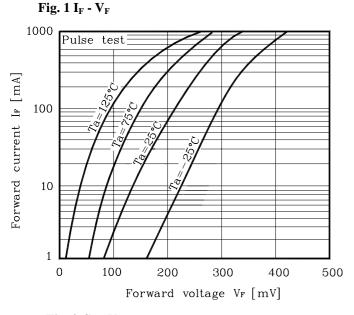


Fig. 2 I_R - V_R

100000

10000

Ta=25°C

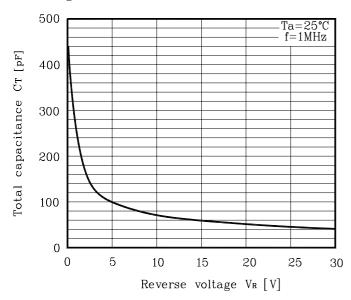
Ta=25°C

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Ta=25°C

Reverse voltage V_R (V)

Fig. 3 C_T - V_R



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