

SDB130B

Schottky Barrier Diode

Applications

- Portable equipment battery applications
- SMPS applications

Features

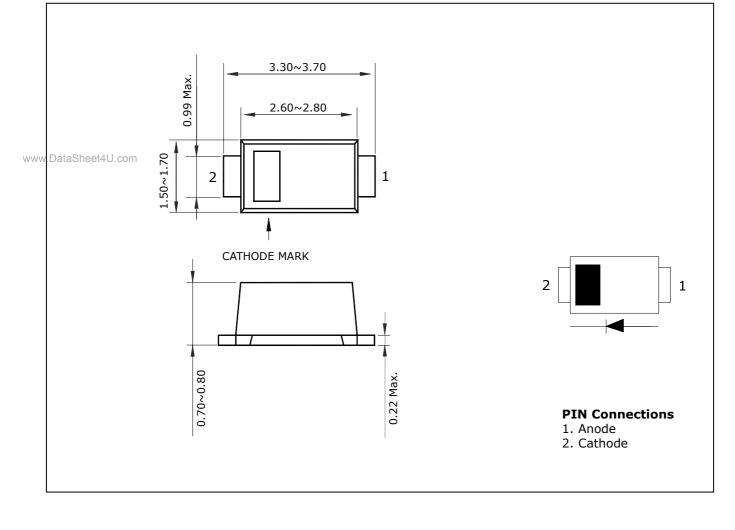
- Low switching loss
- High reliability
- Very low reverse current: I_R =0.15mA Max. @ V_R =30V
- Low forward voltage: V_F =0.49V Max. @ I_F =1A

Ordering Information

Type No.	Marking	Package Code		
SDB130B	1A3B	SOD-123	_	

Outline Dimensions

unit : mm



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Absolute Maximum Ratings

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	Tյ	150	°C		
Storage temperature range	T _{stg}	-55~150	°C		

Electrical Characteristics

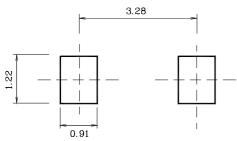
Electrical Characteristics (Ta=2					=25°C)	
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Forward voltage	$V_{F}^{1)}$	I _F =1A	-	-	0.49	V
Reverse current	I _R	V _R =30V	-	-	150	μA
Total capacitance	C _T	V_R =10V, f=1MH _Z	-	70	-	pF
Thermal resistance	R_{th}	Junction to ambient ²⁾	-	-	140	°C/W

1) Pulse test : $t_P \le 380 \ \mu$ s, Duty cycle $\le 2\%$

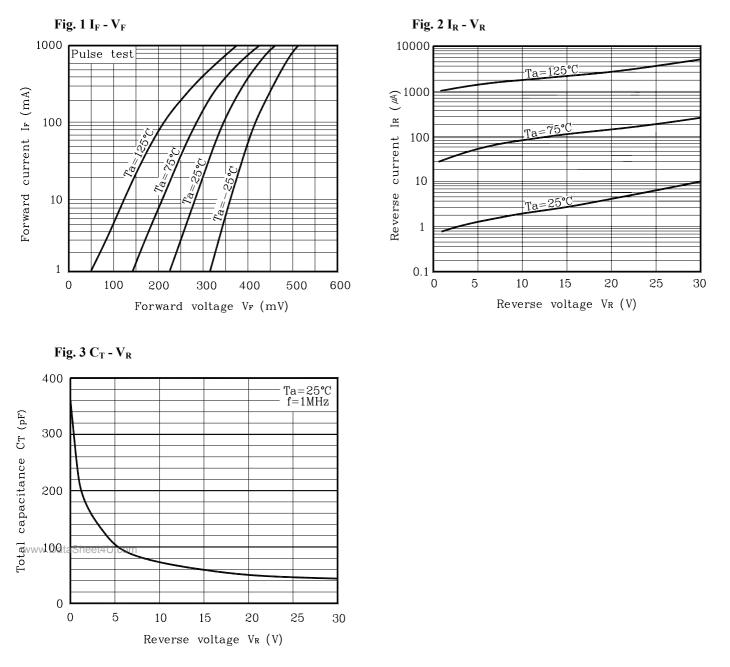
2) Device mounted on glass epoxy PCB (recommanderable minimum solder land)

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

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Electrical Characteristic Curves



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