

PSBD520S-30

Schottky Barrier diode

Feature

- Ultra Small mold type. (SOD523)
- Low I_R
- High reliability.

Applications

Low current rectification

Construction

Silicon epitaxial planar

Mechanical Characteristics

- Lead finish:100% matte Sn(Tin)
- Mounting position: Any
- > Qualified max reflow temperature:260°C
- > Device meets MSL 1 requirements
- Pure tin plating: 7 ~ 17 um
- ➢ Pin flatness:≤3mil

Electrical characteristics per line@25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V _F	-	-	0.6	V	I _F =200mA
Reverse current	I _R	-	-	1	μΑ	V _R =10V

Absolute maximum rating@25℃

Parameter	Symbol	limits	Unit
Reverse voltage (DC)	V _{RM}	30	V
Average rectified forward current	I _o	200	mA
Forward current surge peak (60Hz 1cyc)	I _{FSM}	1	A
Operating Junction temperature Range	Tj	-55 to 125	°C
Storage temperature	T _{stg}	-40 to +125	°C

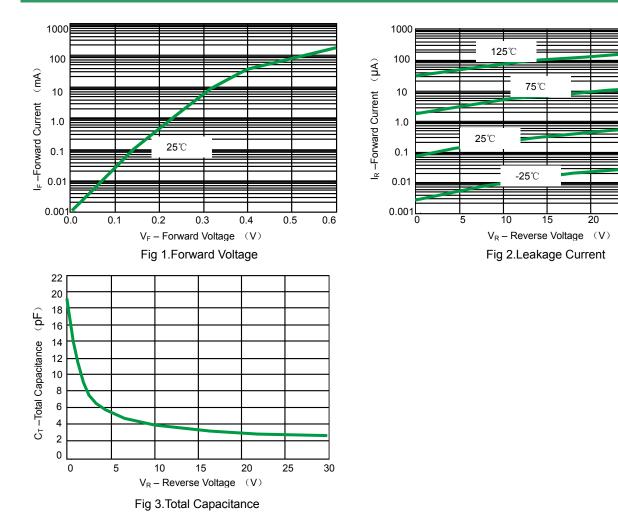
Schottky Barrier diode

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25

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Typical Characteristics

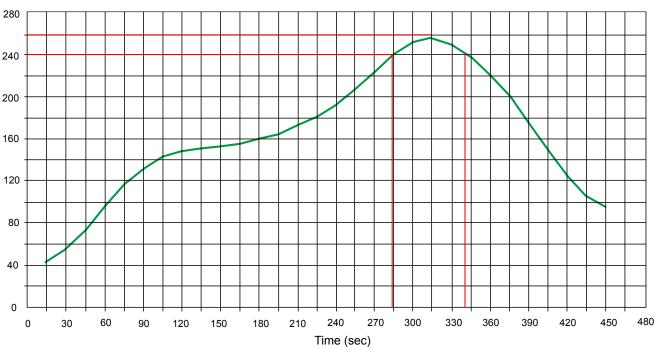


Rev.06

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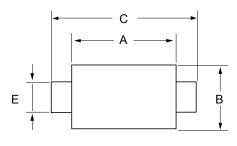
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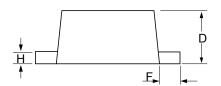
Solder Reflow Recommendation



Peak Temp=257°C, Ramp Rate=0.802deg. °C/sec

Product dimension (SOD-523)

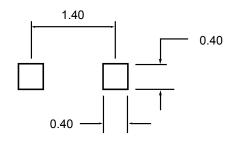




Dim	Inc	hes	Millimeters		
Dim	MIN	MAX	MIN	MAX	
А	0.043	0.051	1.10	1.30	
В	0.028	0.035	0.70	0.90	
С	0.059	0.067	1.50	1.70	
D	0.020	0.028	0.50	0.70	
E	0.010	0.014	0.25	0.35	
F	0.006	0.010	0.15	0.25	
н	0.0028	0.0079	0.07	0.20	

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Unit:mm

Ordering information

Device	Package	Shipping
PSBD520S-30	SOD-523 (Pb-Free)	3000 / Tape & Reel

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