

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

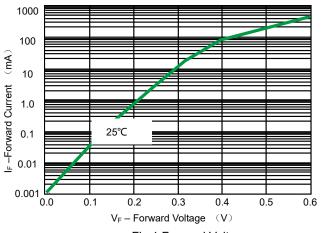
Electrical characteristics per line@25℃

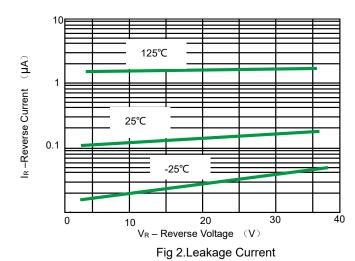
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	VF	-	-	0.65	V	I _F =200mA
Reverse current	I _R	-	-	1	μΑ	V _R =10V

Absolute maximum rating@25℃

Parameter	Symbol	limits	Unit
Reverse voltage (DC)	V _{RM}	40	٧
Average rectified forward current	lo	200	mA
Forward current surge peak (60Hz 1cyc)	I _{FSM}	1	А
Operating Junction temperature Range	Tj	-55 to 125	°C
Storage temperature	T _{stg}	-40 to +125	$^{\circ}$ C

Typical Characteristics





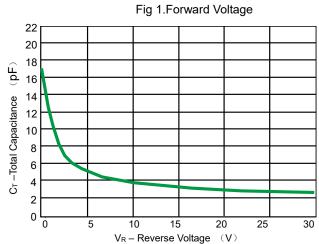
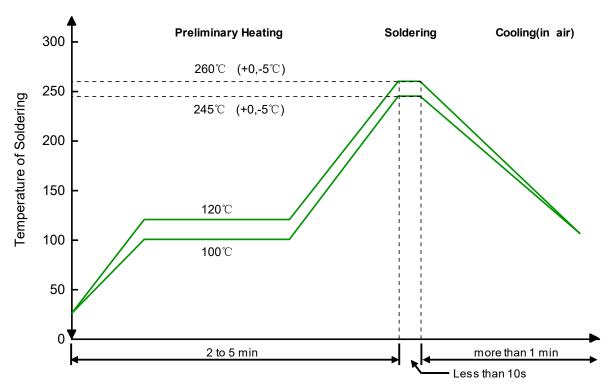


Fig 3.Total Capacitance

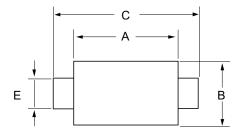
VR - Neverse voltage (V

Solder Reflow Recommendation



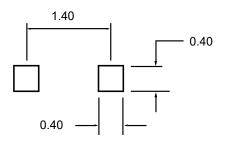
Remark: Pb free for 260°C; Pb for 245°C.

Product dimension (SOD-523)





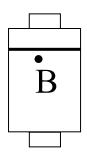
Dim	Inc	hes	Millimeters		
	MIN	MAX	MIN	MAX	
Α	0.043	0.051	1.10	1.30	
В	0.028	0.035	0.70	0.90	
С	0.059	0.067	1.50	1.70	
D	0.016	0.028	0.40	0.70	
E	0.010	0.014	0.25	0.35	
F	0.006	0.010	0.15	0.25	
Н	0.0028	0.0079	0.07	0.20	



Suggested PCB Layout

Unit:mm

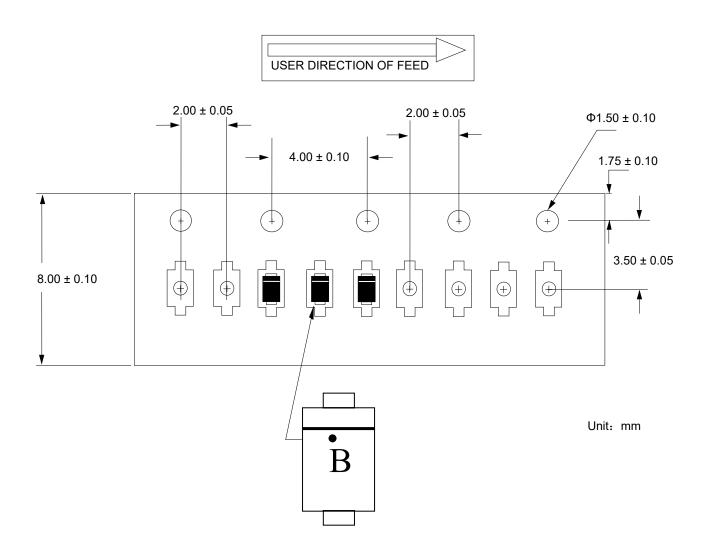
Marking information



Ordering information

Device	Package	Reel	Shipping
PSBD521S-40	SOD-523 (Pb-Free)	7"	3000 / Tape & Reel

Load with information



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