



Schottky Barrier Diode

Feature

- ➤ Ultra Small mold type. (SOD-323)
- 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

Pure tin plating: 7 ~ 17 um

▶ Pin flatness:≤3mil

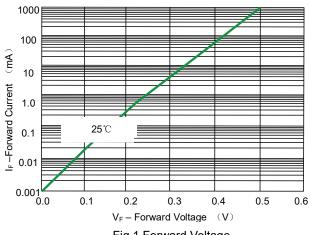
Electrical characteristics per line@25℃

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V _F	-	-	0.50	V	I _F =1A
Reverse current	I _R	-	-	0.1	mA	V _R =30V
Junction	C _j	-	120	-	pF	V _R =0V
Capacitance						f =1MHz

Absolute maximum rating@25℃

Parameter	Symbol	limits	Unit
Reverse voltage (DC)	V _{RM}	30	V
Average rectified forward current	l _o	1	A
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	25	А
Operating Junction temperature Range	Tj	-55 to 125	$^{\circ}$ C
Storage temperature	T _{stg}	-55 to 125	°C

Typical Characteristics



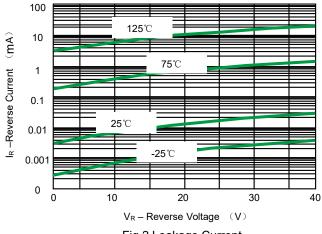
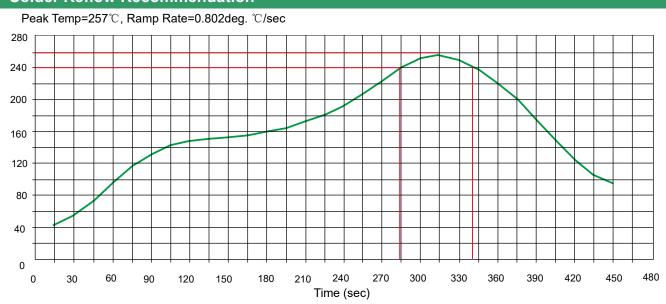


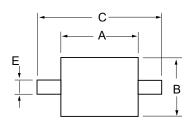
Fig 1.Forward Voltage

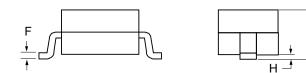
Fig 2.Leakage Current

Solder Reflow Recommendation

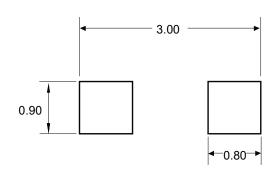


Product dimension (SOD-323)



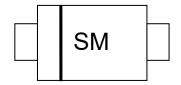


Dim	Incl	nes	Millimeters		
	MIN	MAX	MIN	MAX	
Α	0.063	0.075	1.60	1.90	
В	0.045	0.057	1.15	1.45	
С	0.090	0.106	2.30	2.70	
D	0.031	0.043	0.80	1.00	
E	0.010	0.01	0.25	0.40	
F	0.004	0.007	0.09	0.18	
Н	0.000	0.004	0.00	0.10	



Unit:mm

Marking information



Ordering information

Device	Package	Reel	Shipping
PSBD3D30V1H	SOD-323(Pb-free)	7"	3000 / Tape & Reel

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