

PSBD3D40V1H

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
- 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	V _F	-	-	0.60	V	I _F =1A
Reverse current	I _R	-	-	0.1	mA	V _R =40V

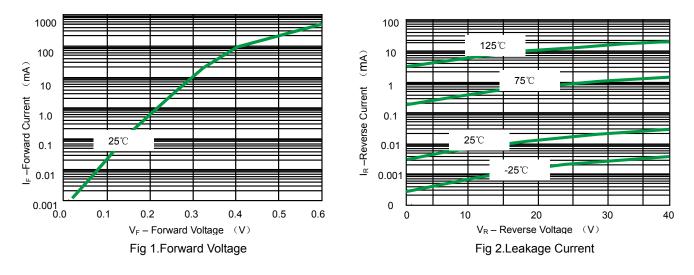
Absolute maximum rating@25°C

Parameter	Symbol	limits	Unit
Reverse voltage (DC)	V _{RM}	40	V
Average rectified forward current	Ι _ο	1	A
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	25	A
Operating Junction temperature Range	Tj	-55 to 125	°C
Storage temperature	T _{stg}	-40 to +125	°C

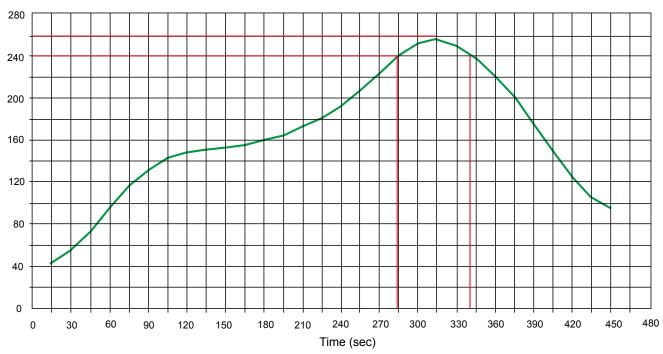
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Typical Characteristics



Solder Reflow Recommendation

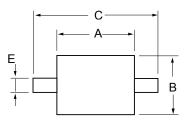


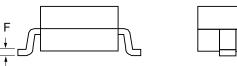
Peak Temp=257°C, Ramp Rate=0.802deg. °C/sec

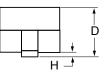
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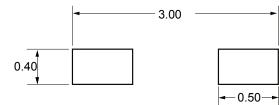
Product dimension (SOD-323)







Dim	Inch	nes	Millimeters		
	MIN	МАХ	MIN	МАХ	
А	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	0.041	0.80	1.03	
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

Ordering information

Device	Package	Shipping
PSBD3D40V1H	SOD-323(Pb-free)	3000 / Tape & Reel

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