

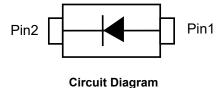


Feature

- ➤ 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	VF	-	0.35	0.45	V	I _F =20mA
Forward voltage	VF	-	0.55	0.65	V	I _F =200mA
Forward voltage	VF	-	0.65	0.80	V	I _F =350mA
Reverse current	I _R	-	-	5	uA	V _R =40V
Reverse current	I _R	-	-	2	uA	V _R =30V
Junction	Cj	C _i - 30	50	pF	V _R =0V	
Capacitance			_	30	30	ρi

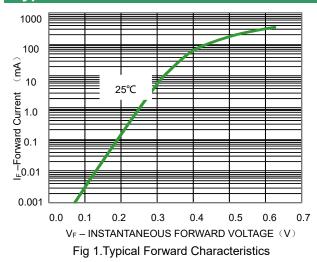
Absolute maximum rating@25℃

Parameter	Symbol	limits	Unit
Reverse voltage(repetitive peak) Reverse voltage (DC)	V _{RM}	40	V
Average rectified forward current	lo	0.35	Α
Peak forward surge current(8.33ms 1/2sine waveform with single pulse)	Ігэм	2	А

Absolute maximum rating@25℃

Parameter	Symbol	limits	Unit
Power Dissipation	PD	200	mW
Thermal Resistance Junction to Ambient	RθJA	500	°C/W
Operating Junction temperature Range	Tj	-55 to 125	$^{\circ}$
Storage temperature	T _{stg}	-55 to 125	$^{\circ}$

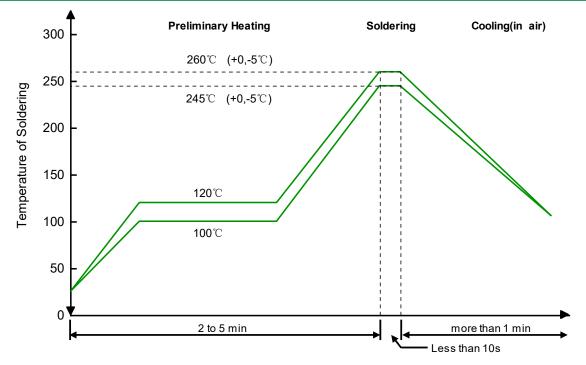
Typical Characteristics



10000 1000 1000 125°C 100 75°C 100 1.0 25°C 0.01 0

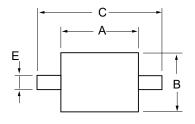
Fig 2. Typical Reverse Characteristics

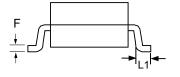
Solder Reflow Recommendation

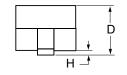


Remark: Pb free for 260°C; Pb for 245°C.

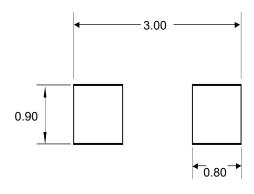
Product dimension (SOD-323)







Dim	Incl	nes	Millimeters		
ווווט	MIN	MAX	MIN	MAX	
Α	0.063	0.075	1.60	1.90	
В	0.045	0.057	1.15	1.45	
С	0.091	0.106	2.30	2.70	
D	0.031	0.039	0.80	1.00	
Е	0.010	0.016	0.25	0.40	
F	0.004	0.007	0.09	0.18	
Н	0.000	0.004	0.00	0.10	
L1	0.010	0.016	0.25	0.40	



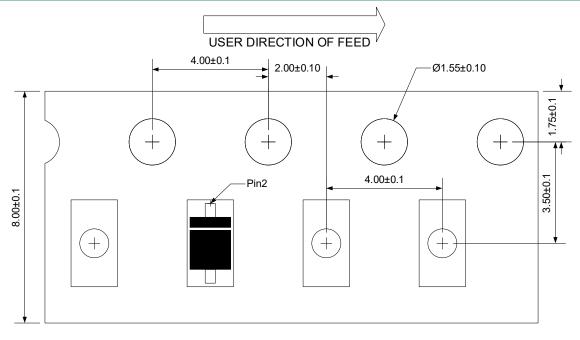
Suggested PCB Layout

Unit:mm

Ordering information

Device	Package	Reel	Shipping
PSBD3D40V03	SOD-323	7"	3000 / Tape & Reel

Load with information



Unit:mm

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