

PSBD3DF40V1H

Pin2

Schottky Barrier Diode

Feature

- Ultra Small mold type. (SOD-323F)
- Low IR
- 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	-	0.48	0.60	V	I⊧=1A
Reverse current	I _R	-	8.0	50	uA	V _R =40V
Junction Capacitance	Cj	-		120	pF	V _R =4V f =1MHz

Absolute maximum rating@25℃

Parameter	Symbol	limits	Unit
Reverse voltage(repetitive peak)	V _{RM}	40	V
Reverse voltage (DC)	VR	40	V
Average rectified forward current	lo	1.0	А

Pin1 SF Pin2

Circuit Diagram

Pin1

Marking(Top View)

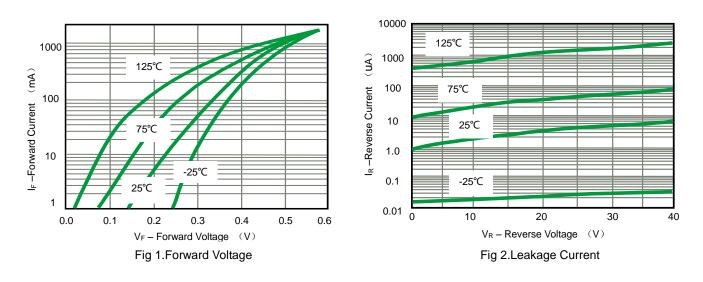
Schottky Barrier Diode

PSBD3DF40V1H

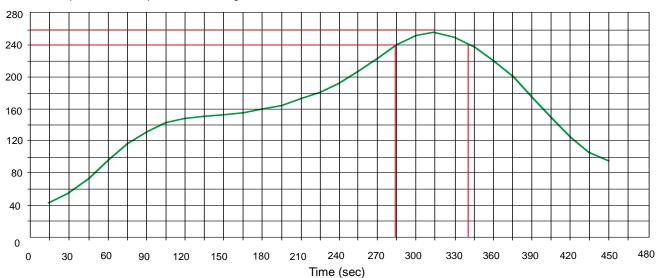
Absolute maximum rating@25°C

Parameter	Symbol	limits	Unit
Peak forward surge current(8.33ms 1/2sine waveform with single pulse)	I _{FSM}	9	A
Power Dissipation	PD	250	mW
Operating Junction temperature Range	Tj	-55 to 125	°C
Storage temperature	T _{stg}	-55 to 150	°C

Typical Characteristics



Solder Reflow Recommendation

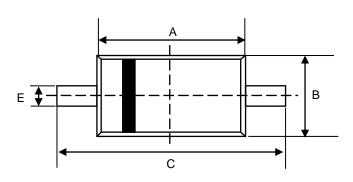


Peak Temp=257°C, Ramp Rate=0.802deg. °C/sec

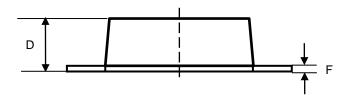
PSBD3DF40V1H

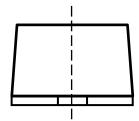
Schottky Barrier Diode

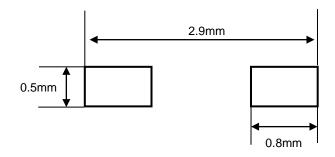
Product dimension (SOD-323F)



Dim	Millimeters				
	MIN	ТҮР	МАХ		
А	1.60	1.70	1.80		
В	1.15	1.25	1.35		
С	2.30	2.50	2.70		
D	0.60	0.70	0.80		
E	0.20	0.30	0.40		
F	0.08	0.13	0.18		









Ordering information

Device	Package	Reel	Shipping
PSBD3DF40V1H	SOD-323F(Pb-free)	7"	3000 / Tape & Reel

IMPORTANT NOTICE

Q and **Prisemi** are registered trademarks of **Prisemi Electronics Co., Ltd** (Prisemi), Prisemi reserves the right to make changes without further notice to any products herein. Prisemi makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Prisemi assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. "Typical" parameters which may be provided in Prisemi data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. Prisemi does not convey any license under its patent rights nor the rights of others. The products listed in this document are designed to be used with ordinary electronic equipment or devices, Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

Website: http://www.prisemi.com For additional information, please contact your local Sales Representative. ©Copyright 2009, Prisemi Electronics Prisemi® is a registered trademark of Prisemi Electronics. All rights are reserved.