PSBDAXXXV2



Feature

> Metal silicon junction, majority carrier conduction

®

- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability

Prisemi

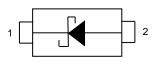
> For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

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

Absolute maximum rating@25℃

Parameter	Symbol	PSBDA 20V2	PSBDA 40V2	PSBDA 60V2	PSBDA 80V2	PSBDA 100V2	PSBDA 120V2	PSBDA 150V2	PSBDA 200V2	Unit
Maximum Repetitive Peak Reverse Voltage	Vrrm	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	Vrms	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	Vcc	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	2.0						A		
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	Ifsm	50					A			
Max Instantaneous Forward Voltage at 2 A	VF	0.55 0.70 0.85 0.95				95	V			



Schottky Barrier diode

PSBDAXXXV2

Absolute maximum rating@25℃

Parameter	Symbol	PSBDA 20V2	PSBDA 40V2	PSBDA 60V2	PSBDA 80V2	PSBDA 100V2	PSBDA 120V2	PSBDA 150V2	PSBDA 200V2	Units
Maximum DC Reverse Current Ta = 25°C at Rated DC Reverse Voltage Ta =100°C	IR		0.5 10				0.3 5			mA
Typical Junction Capacitance ⁽¹⁾	CJ	22	220 80					pF		
Typical Junction Resistance ⁽²⁾	R _{θJA}	80					°C/W			
Operating Junction Temperature Range	TJ	-55~+125					°C			
Storage Temperature Range	Тѕтс	-55~+150					°C			

Notes: 1. Measured at 1MHZ and applied reverse voltage of 4V.D.C

2. P.C.B mounted with 2.0"X2.0" (5X5 cm) copper pad areas.

Typical Characteristics

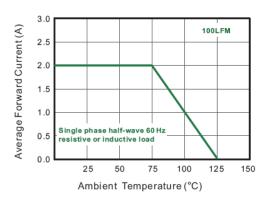
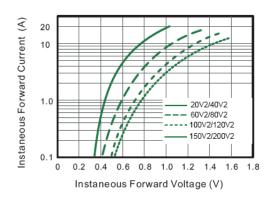
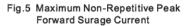


Fig.1 Forward Current Derating Curve

Fig.3 Typical Forward Characteristic





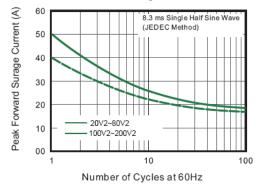


Fig.2 Typical Reverse Characteristics

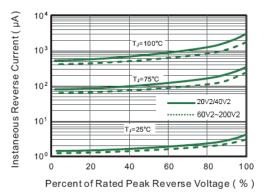
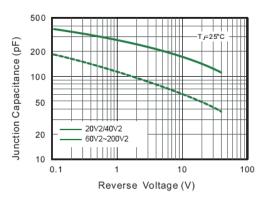
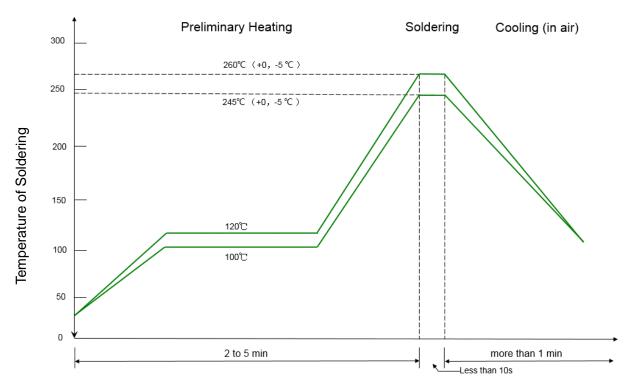


Fig.4 Typical Junction Capacitance



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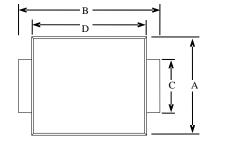
Solder Reflow Recommendation

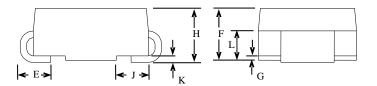


Remark: Pb free for 260°C; Pb for 245°C.

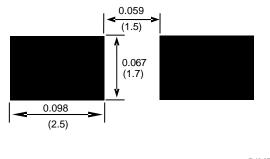
Schottky Barrier diode

Product dimension(SMA)





Dimension	Inch	es	Millimeters			
Dimension	MIN	MAX	MIN	МАХ		
А	0.086	0.110	2.18	2.79		
В	0.185	0.209	4.70	5.31		
С	0.051	0.067	1.29	1.70		
D	0.160	0.180	4.06	4.57		
E	0.036	0.056	0.91	1.42		
F	0.069	0.087	1.75	2.20		
G	0.002	0.008	0.05	0.20		
Н	0.069	0.091	1.75	2.31		
J	0.035	0.053	0.89	1.35		
К	0.008	0.014	0.20	0.35		
L	0.039	0.049	0.99	1.24		



Suggested PCB Layout

DIMENSIONS ARE :

INCHES (Millimeters)

Ordering information

Device	Package	Reel	MPQ	
PSBDAXXXV2	SMA(Pb-Free)	13"	5000/ Tape & Reel	

PSBDAXXXV2

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