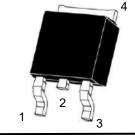


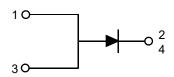
PSBDDP65V5S

Low VF Schottky Barrier Rectifiers

Feature

- Low power loss , high efficiency
- Low forward voltage drop
- High surge capability
- High temperature soldering guaranteed
- > Mounting position: any





TO-252 (Top View)

Circuit Diagram

Absolute maximum rating@25°C

Rating	Symbol	Value	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	65	V
Maximum RMS Voltage	V _{RMS}	46	V
Maximum DC Blocking Voltage	V _{DC}	65	V
Maximum Average Forward Rectified Current	I _{F(AV)}	5	А
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150	А
Typical Junction Capacitance ¹⁾	CJ	500	pF
Typical thermal resistance ²⁾	R _{eja}	50	°C/W
Junction and Storage Temperature Range	T _{J,} T _{STG}	-55~+150	°C

Notes:

1.Measured at 1 MHz and applied reverse voltage of 4 V D.C

2. Mounted on infinite heat sink..

Electrical characteristics per line@25°C (unless otherwise specified)

Parameter	Symbol	Conditions		Min.	Тур.	Max.	Units
Breakdown Voltage	V _{BR}	I _R = 0.5mA		65	-	-	V
	V _F	I _F = 1A		-	0.39	-	V
Instantaneous Forward Voltage		I _F = 2A		-	0.43	-	
		I _F = 5A		-	0.5	0.55	
	I _R	V _R = 36V		-	5.0	-	μA
Reverse Current		V _R = 60V	T _J = 25℃	-	-	50	μA
			T _J = 100°C	-	12	-	mA

Low VF Schottky Barrier Rectifiers

Typical Characteristics

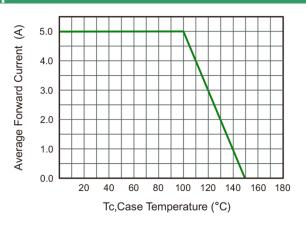


Fig.1 Typical Forward Current Derating Curve

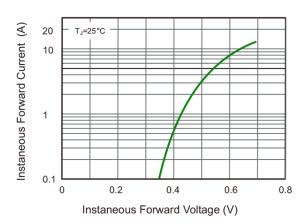


Fig.3 Typical Forward Characteristic

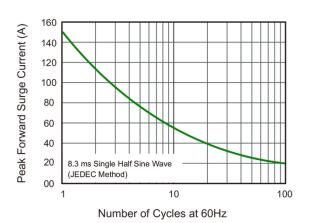


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

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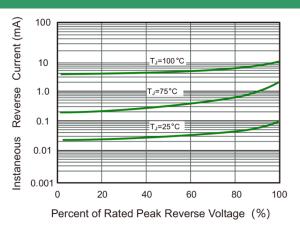


Fig.2 Typical Reverse Characteristics

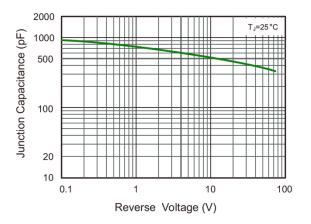


Fig.4 Typical Junction Capacitance

Low VF Schottky Barrier Rectifiers

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Max 0.264 0.217

0.033 0.098 0.248

0.024

0.022

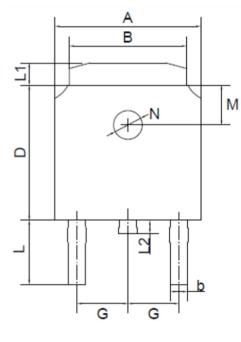
0.047

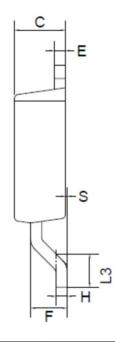
0.039

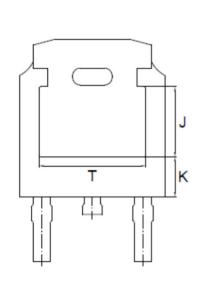
0.069

0.190 Ref.

Product Dimension (TO-252)

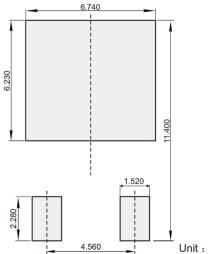






		Millimeters		Inc	hes
	Dim	Min	Мах	Min	N
	А	6.30	6.70	0.248	0
	В	5.10	5.50	0.201	0
<u> </u>	b	0.66	0.86	0.026	0
	С	2.10	2.50	0.083	0
	D	5.90	6.30	0.232	0
	E	0.40	0.60	0.016	0
0	F	1.30	1.80	0.051	0
11.400	G	2.29	Тур.	0.090) Тур.
	Н	0.45	0.55	0.018	0
	L	2.70	3.10	0.106	0
	L1	0.80	1.20	0.031	0
	L2	0.60	1.00	0.024	0
Unit : mm	L3	1.00	1.75	0.039	0
	S	0.00	0.23	0.000	0
yout	М	1.80	Тур.	0.071	Тур.
	N	1.30	Тур.	0.051	Тур.
	J	3.16	Ref.	0.124	Ref.
	к	1.80	Ref.	0.071	Ref.

4.83 Ref.

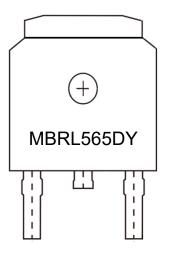


Suggested PCB Layout

т

Low VF Schottky Barrier Rectifiers

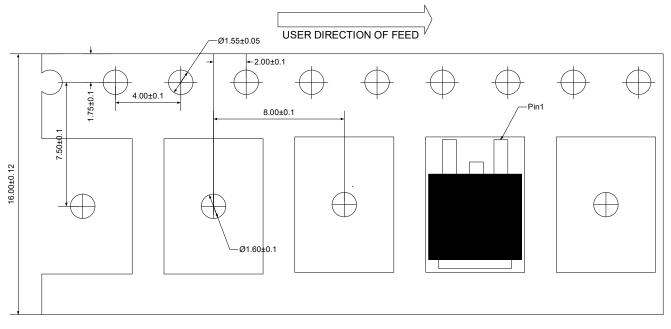
Marking Information



Ordering Information

Device	Package	Reel	Shipping
PSBDDP65V5S	To-252	13"	2500 / Tape & Reel

Load With Information



Unit:mm

PSBDDP65V5S

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