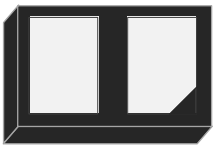
WSB5567D

Middle Power Schottky Barrier Diode **Http://www.sh-willsemi.com**

Features

- 1.0A Average rectified forward current
- Low forward voltage
- Low leakage current

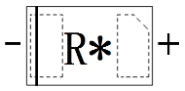


DFN1610-2L(Bottom view)

Circuit

Applications

- Switching circuit
- Middle current rectification



Top Marking

Absolute maximum ratings

Parameter	Symbol	Value	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current(1)	I_O	1.0	A
Forward peak surge current(2)	I_{FSM}	7	A
Junction temperature	T_J	-55 ~ 150	°C
Operating temperature	Topr	-40 ~ 150	°C
Storage temperature	Tstg	-55 ~ 150	°C

Electronics characteristics (T_A=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward voltage(3)	V_F	I_F=0.5A	-	0.4	0.5	V
		I_F=1.0A	-	0.48	0.62	V
Reverse current	I_R	V_R=V_R	-		100	uA
Junction capacitance	C_J	V_R=4V, F=1MHz	-		35	pF
Thermal resistance	$R_{\theta JSP}$	Junction to Soldering point	-	-	20	K/W

Order Informations

Device	Package	Marking	Shipping
WSB5567D-2/TR	DFN1610-2L	R* (4)	3000/Reel&Tape

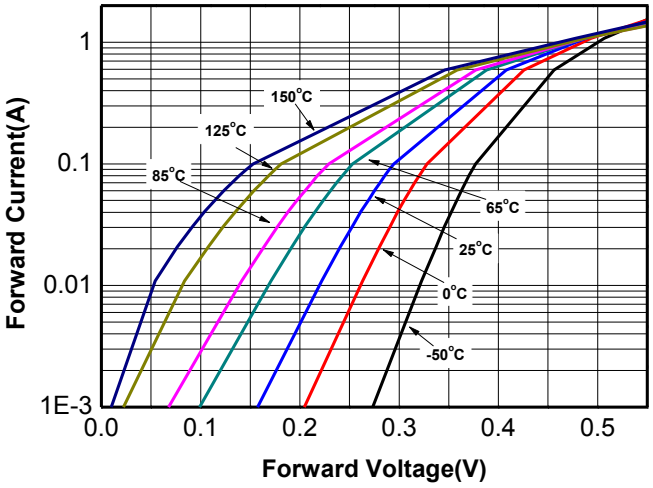
Note 1: Duty cycle=0.5，f=20kHz，square wave;

Note 2: Pulse Width=8.3ms, Single half sine Pulse

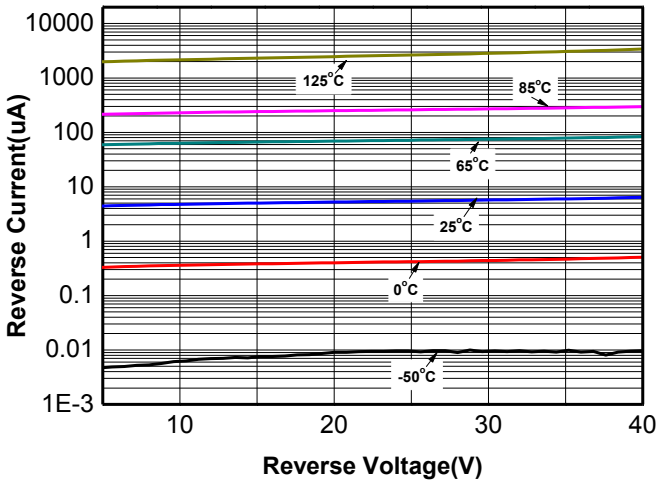
Note 3: Single Pulse test tp=380us;

Note 4:∗ = Month code (A~Z); R = Device code

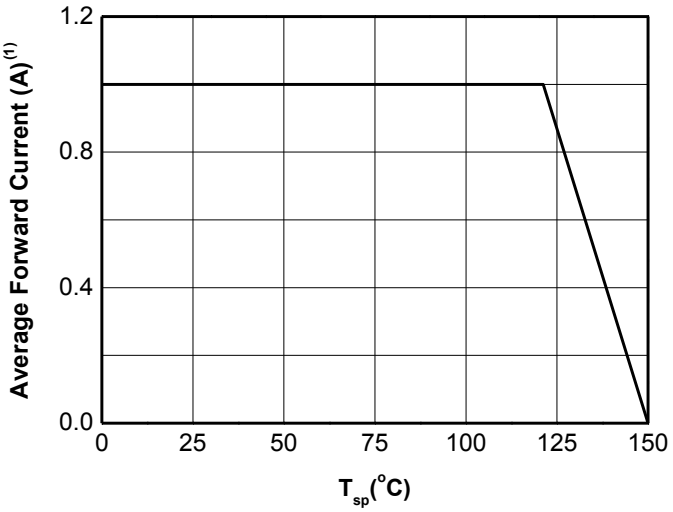
Typical characteristics (Ta=25°C, unless otherwise noted)



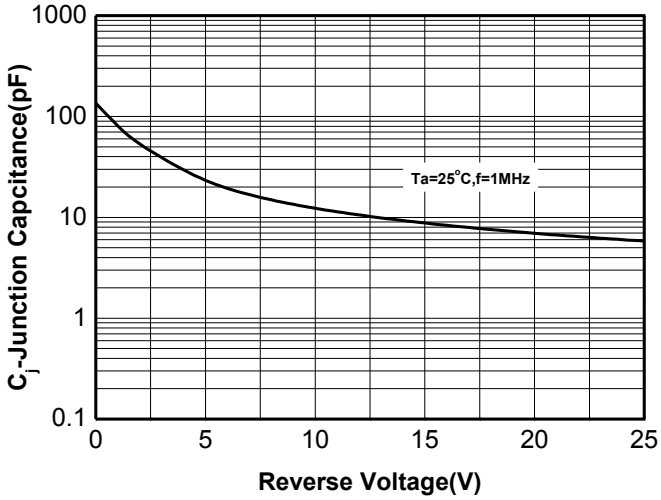
Forward voltage vs. Forward current



Reverse current vs. Reverse voltage



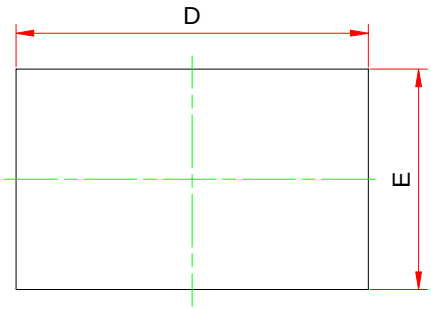
Current Derating



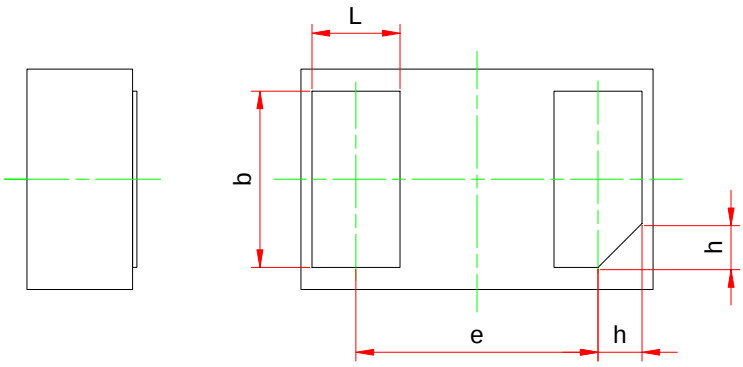
Junction capacitance vs. Reverse voltage

Package outline dimensions

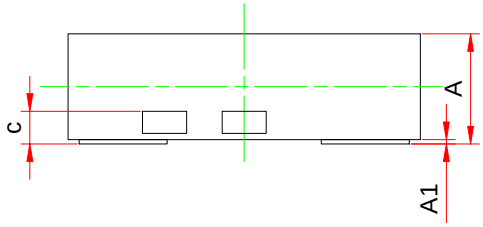
DFN1610-2L



TOP VIEW



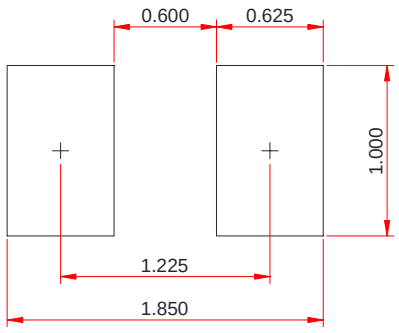
BOTTOM VIEW



SIDE VIEW

Symbol	Dimensions in Millimeters		
	Min.	Typ.	Max.
A	0.45	0.50	0.55
A1	0.00	0.02	0.05
c		0.15 Ref.	
b	0.75	0.80	0.85
L	0.35	0.40	0.45
D	1.55	1.60	1.65
E	0.95	1.00	1.05
e		1.10 BSC	
h		0.20 Ref.	

Recommended PCB Layout (Unit: mm)

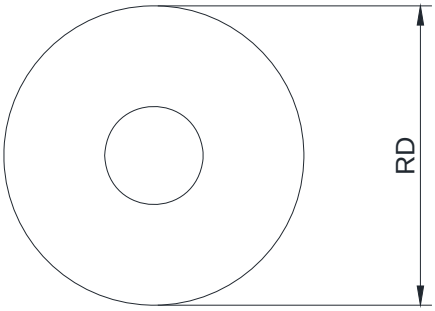


Notes:

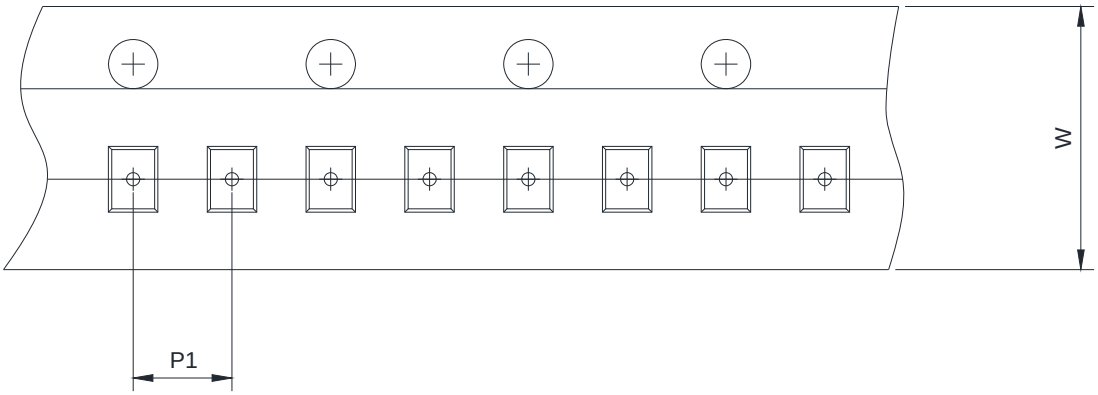
This recommended land pattern is for reference purposes only. Please consult your manufacturing group to ensure your PCB design guidelines are met.

TAPE AND REEL INFORMATION

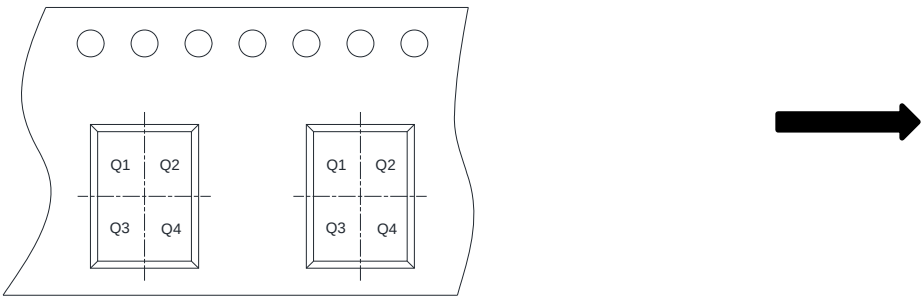
Reel Dimensions



Tape Dimensions



Quadrant Assignments For PIN1 Orientation In Tape



RD	Reel Dimension	☑7inch	☐13inch		
W	Overall width of the carrier tape	☑8mm	☐12mm	☐16mm	
P1	Pitch between successive cavity centers	☐2mm	☑4mm	☐8mm	
Pin1	Pin1 Quadrant	☑Q1	☑Q2	☐Q3	☐Q4

制 修 订 记 录					
文件版本	制修日期	修订页次	修订人	变更内容	
Rev 1.0	20200115		衷世雄	建立文档	
批准		审核		编制	
日期		日期		日期	

各部门会签			
应用部	封装部	市场部	生产管理部
市场部上传者/上传时间			
品质部确认者/确认时间			