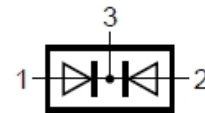


**WSB5549N**
**Schottky Barrier Diode**
[Http://www.willsemi.com](http://www.willsemi.com)
**Features**

- High switching speed
- Low leakage current
- Small package DFN1006-3L

**Applications**

- High-speed switching
- General-purpose switching


**DFN1006-3L(Bottom View)**

**Circuit**

**Marking**
**Absolute maximum ratings**

Parameter	Symbol	Value	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	100	V
Reverse voltage (DC)	$V_R$	100	V
Average rectified forward current	$I_O$	150	mA
Peak forward surge current	$I_{FSM}$	1 <sup>(1)</sup>	A
Junction temperature	$T_J$	150	°C
Operating temperature	$T_{opr}$	-65 ~ 150	°C
Storage temperature	$T_{stg}$	-65 ~ 150	°C

**Electronics characteristics ( $T_A=25^\circ\text{C}$ )**

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Reverse Voltage	Per diode	$V_R$	$I_R=100\mu\text{A}$	100			V
Forward Voltage	Per diode	$V_F$	$I_F=1\text{mA}$			0.5	V
			$I_F=10\text{mA}$			0.6	V
			$I_F=50\text{mA}$			0.8	V
			$I_F=150\text{mA}$			1.2	V
Reverse current	Per diode	$I_R$	$V_R=25\text{V}$			50	nA
			$V_R=70\text{V}$			0.5	uA
			$V_R=100\text{V}$			1	uA
Junction capacitance		$C_J$	$V_R=5\text{V}, F=1\text{MHz}$		3.4		pF
Thermal Resistance		$R_{\theta(JA)}$	Junction to Ambient			500	K/W

**Order Information**

Device	Package	Marking	Shipping
WSB5549N-3/TR	DFN1006-3L	G*(2)	10000/Reel&Tape

Note 1: Pulse Width=1ms, Single Square Current;

Note 2: \*= Month Code(A~Z); G= Device code;

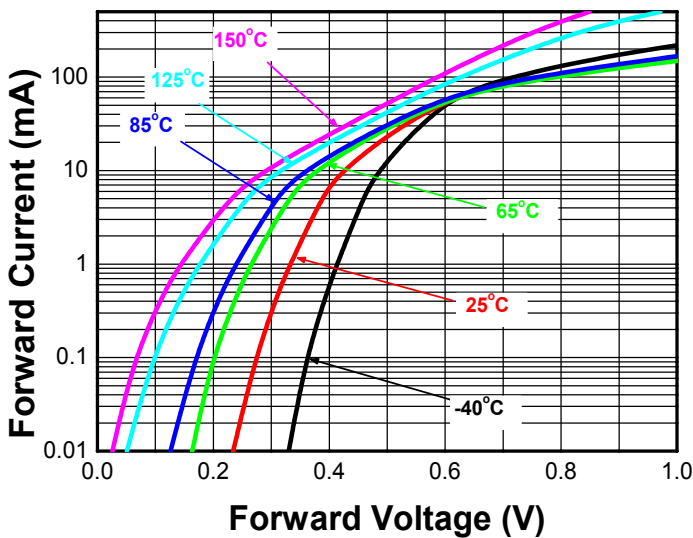
**Typical characteristics (Ta=25°C, unless otherwise noted)**


Fig.1 Forward voltage vs. Forward current

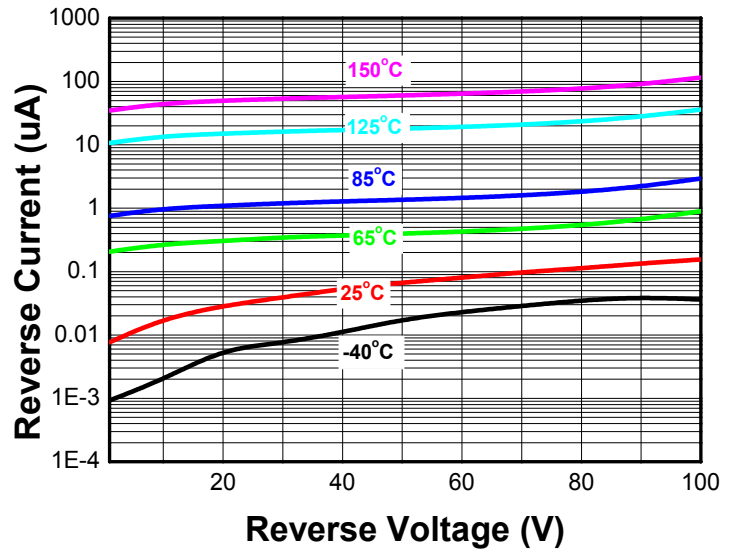


Fig.2 Reverse current vs. Reverse voltage

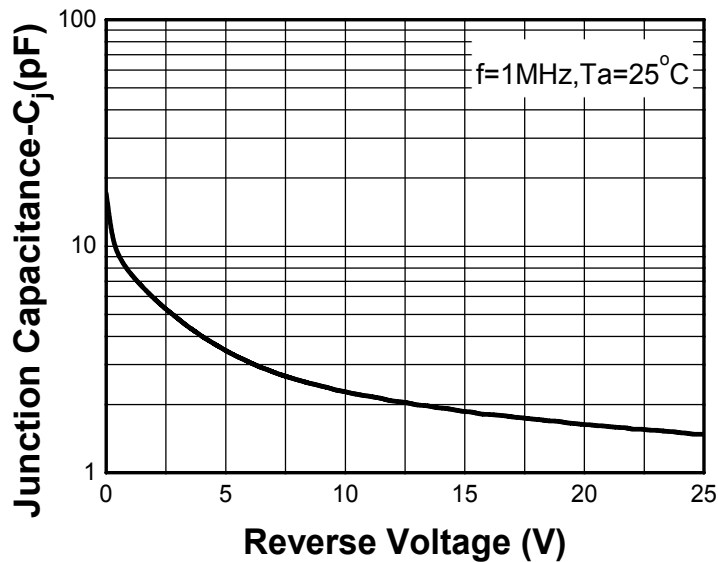
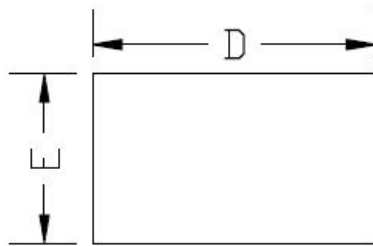
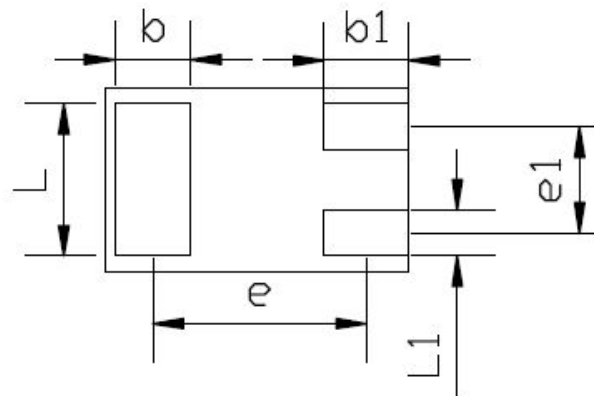
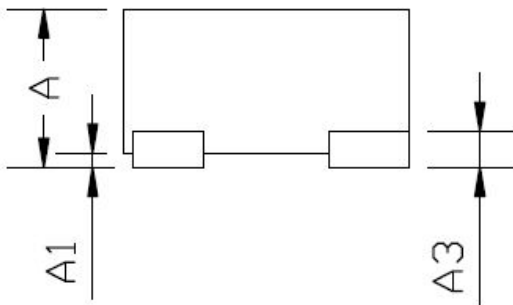
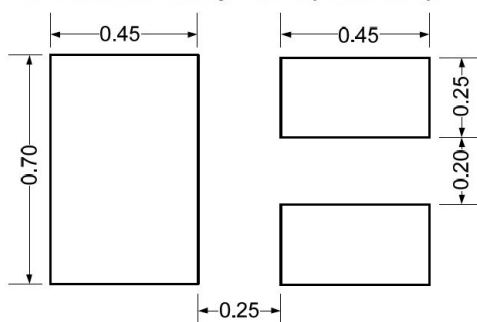


Fig.3 Junction capacitance vs. Reverse voltage

**Package outline dimensions**

TOP VIEW

BOTTOM VIEW

SIDE VIEW

COMMON DIMENSION (MM)			
PKG	DFN1006		
REF.	MIN.	NOM.	MAX
A	>0.4	-	0.50
A1	0.00	-	0.05
A3	0.125REF.		
D	0.95	1.00	1.05
E	0.55	0.60	0.65
b	0.20	0.25	0.30
b1	0.20	0.30	0.40
L	0.45	0.50	0.55
L1	0.10	0.15	0.20
e	0.675		
e1	0.35		

**Recommend land pattern (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.