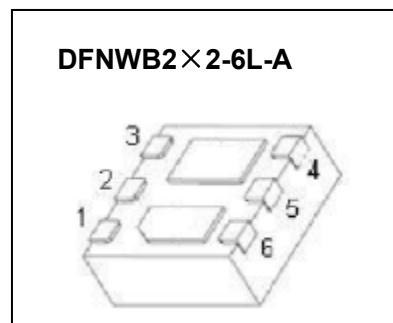


CJLJF3117P P-channel MOSFET and Schottky Barrier Diode

$V_{(BR)DSS}/V_R$	$R_{DS(on)MAX}$	I_D/I_O
-20V	100mΩ@-4.5V	-3.3A
	135mΩ@-2.5V	
	250mΩ@-1.8V	
30V	/	2A



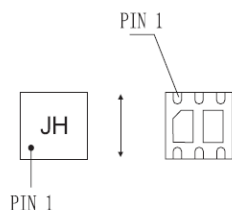
FEATURE

- Independent Pinout to Each Device to Ease Circuit Design
- High Current Schottky Diode

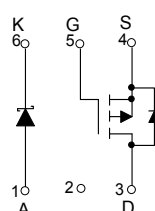
APPLICATION

- Optimized for Portable Applications Like Cell Phones,Digital Cameras,Media Players,etc
- DC-DC Buck Circuits
- Li-ion Battery Applications
- Color Display and Camera Flash Regulators

MARKING



Equivalent Circuit



Maximum ratings ($T_a=25^\circ\text{C}$ unless otherwise noted)

Symbol Para	meter	Value	Unit
P-MOSFET			
V_{DS}	Drain-Source Voltage	-20	V
V_{GS}	Gate-Source Voltage	±8	V
I_D	Continuous Drain Current	-3.3	A
I_{DM}^*	Pulse Drain Current	-10	A
Schottky Barrier Diode			
V_{RRM}	Peak Repetitive Reverse Voltage	30	V
V_R	DC Blocking Voltage	30	V
I_O	Average Rectified Forward Current	2	A
Power Dissipation, Temperature and Thermal Resistance			
P_D	Power Dissipation	0.75	W
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	83.3	$^\circ\text{C/W}$
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~+150	$^\circ\text{C}$
T_L	Lead Temperature for Soldering Purposes(1/8" from case for 10 s)	260	$^\circ\text{C}$

*Repetitive rating: Pluse width limited by junction temperature.

MOSFET ELECTRICAL CHARACTERISTICS

$T_a=25^\circ\text{C}$ unless otherwise specified

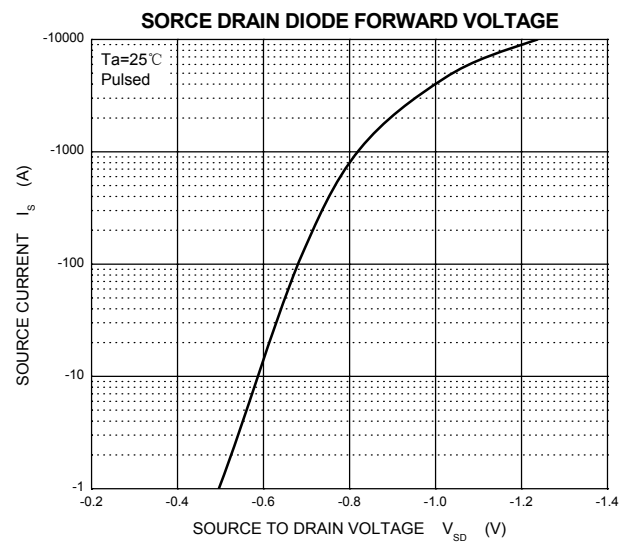
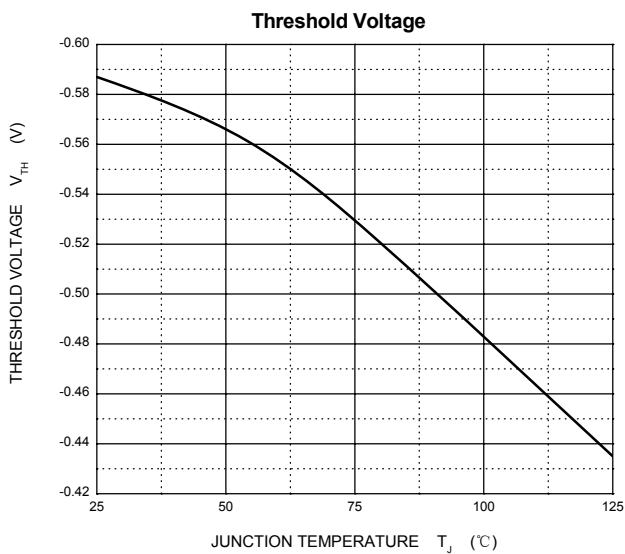
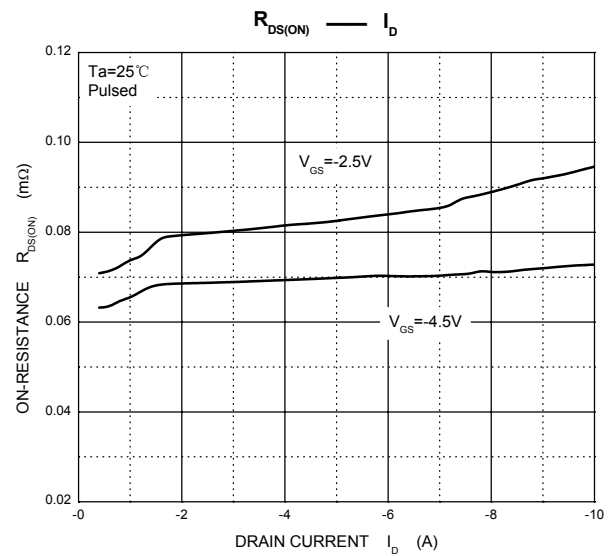
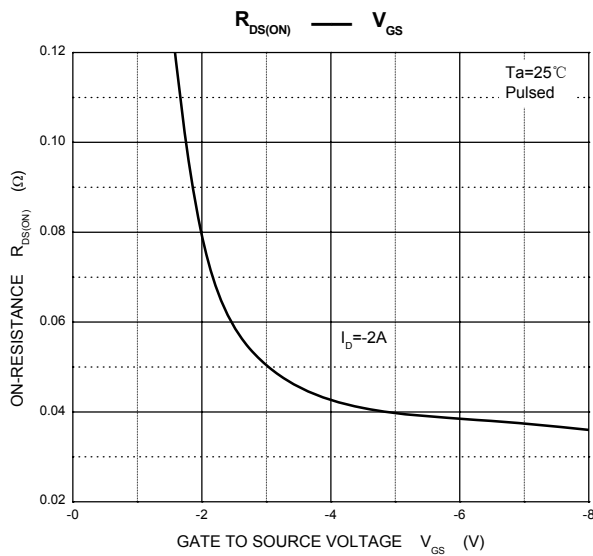
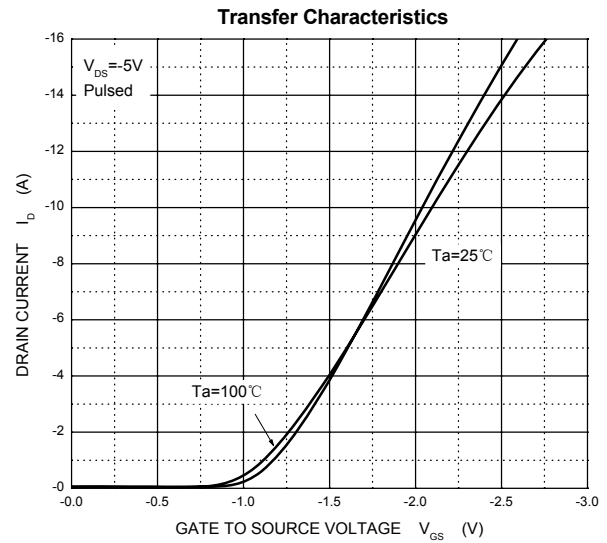
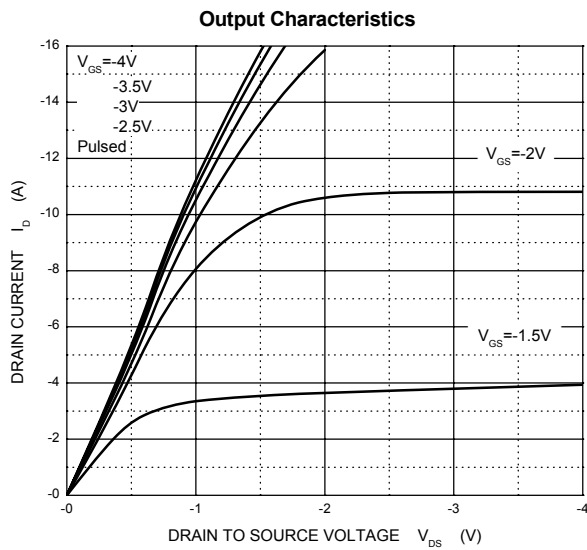
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
P-MOSFET						
STATIC PARAMETERS						
Drain-source breakdown voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =-250μA	-20			V
Zero gate voltage drain current	I _{DSS}	V _{DS} =-16V, V _{GS} = 0V			-1	μA
Gate-body leakage current	I _{GSS}	V _{GS} =±8V, V _{DS} = 0V			±100	nA
Gate threshold voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =-250μA	-0.4		-1	V
Drain-source on-resistance(note1)	R _{DS(on)}	V _{GS} =-4.5V, I _D =-2A			100	mΩ
		V _{GS} =-2.5V, I _D =-2A			135	mΩ
		V _{GS} =-1.8V, I _D =-1.6A			250	mΩ
Forward transconductance(note1)	g _{FS}	V _{DS} =-5V, I _D =-2A	2.5			S
Diode forward voltage(note1)	V _{SD}	I _S =-1A, V _{GS} = 0V			-1	V
DYNAMIC PARAMETERS (note 2)						
Input capacitance	C _{iss}	V _{DS} =-10V, V _{GS} =0V, f =1MHz		531		pF
Output capacitance	C _{oss}			91		pF
Reverse transfer capacitance	C _{rss}			56		pF
SWITCHING PARAMETERS (note 2)						
Turn-on delay time	t _{d(on)}	V _{GS} =-4.5V, V _{DD} =-5V, R _G =6Ω, I _D =-1A		5.2		ns
Turn-on rise time	t _r			13.2		ns
Turn-off delay time	t _{d(off)}			13.7		ns
Turn-off fall time	t _f			19.1		ns
Total Gate Charge	Q _g	V _{DS} =-10V, V _{GS} =-4.5V, I _D =-2A		5.5	6.2	nC
Gate-Source Charge	Q _{gs}			1.0		nC
Gate-Drain Charge	Q _{gd}			1.4		nC
Gate Resistance	R _g			8.8		Ω
SCHOTTKY BARRIER DIODE						
Forward voltage	V _F	I _F =0.1A			0.39	V
		I _F =1A			0.55	V
Reverse current	I _R	V _R =30V			20	μA
		V _R =20V			8	μA
		V _R =10V			4.5	μA
Junction capacitance	C _j	V _R =5V, f=1MHz		30		pF

Note:

- 1.Pulse test: pulse width =300 μs , duty cycle $\leq 2\%$
- 2.These parameters have no way to verify.

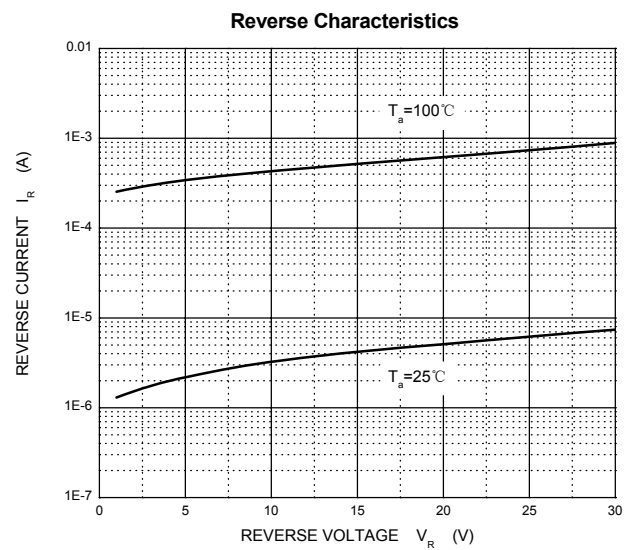
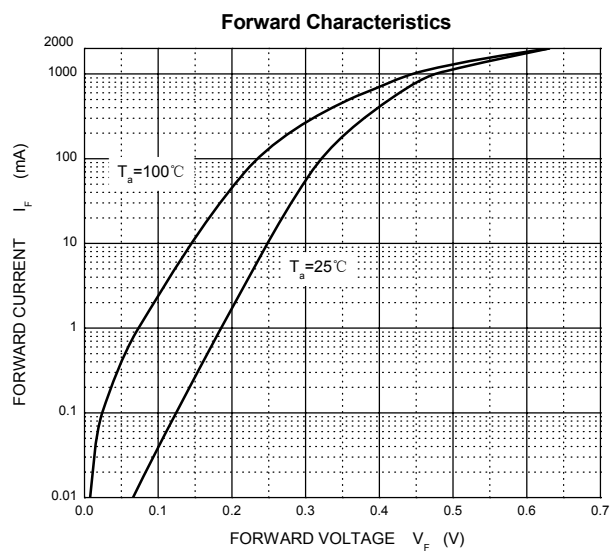
Typical Characteristics

P-channel Characteristics

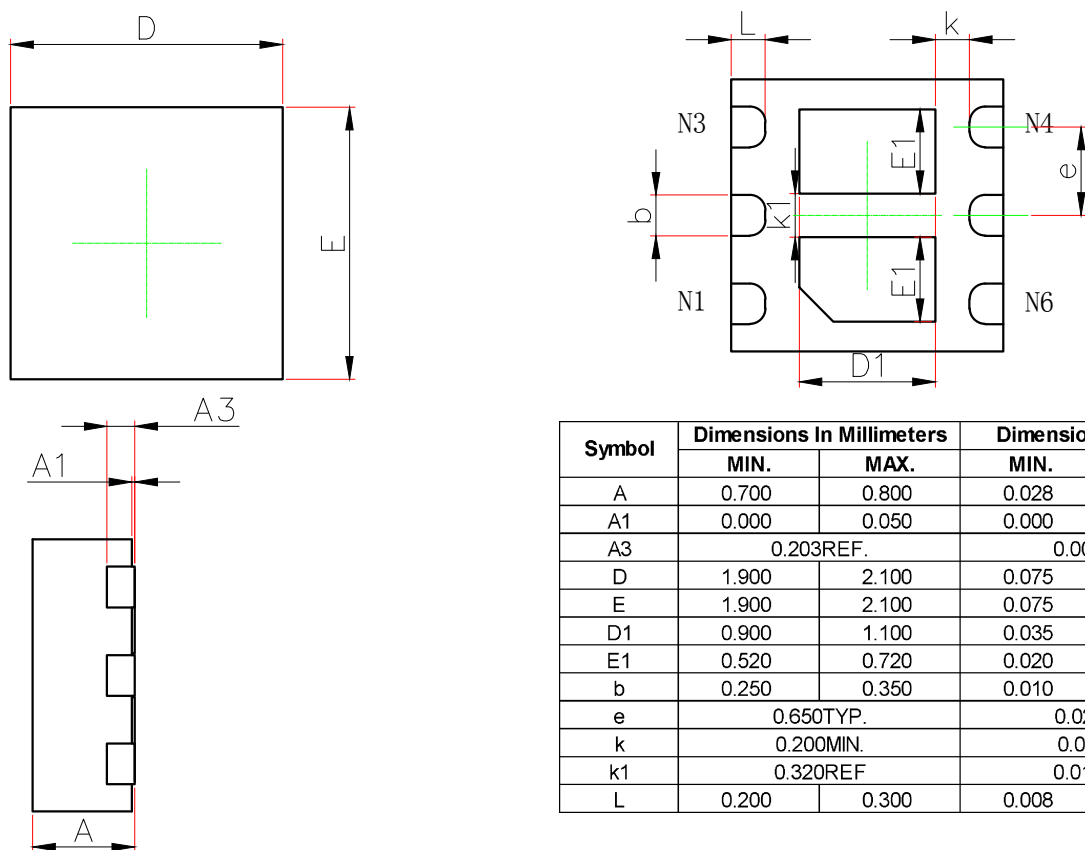


Typical Characteristics

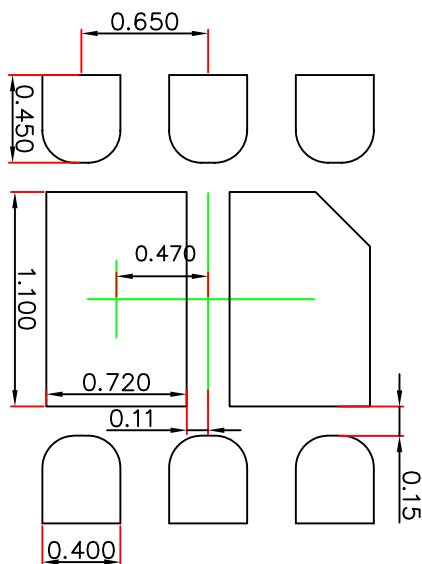
Schottky Characteristics



DFNWB2X2-6L-A Package Outline Dimensions



DFNWB2X2-6L-A Suggested Pad Layout



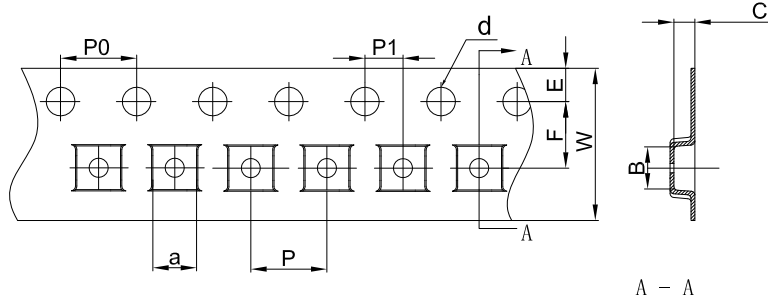
Note:
1.Controlling dimension:in millimeters.
2.General tolerance:±0.050mm.
3.The pad layout is for reference purposes only.

NOTICE

JCET reserve the right to make modifications,enhancements, improvements, corrections or other changes without further notice to any product herein.JCET does not assume any liability arising out of the application or use of any product described herein.

DFNWB2X2-6L Tape and Reel

DFNWB2×2-6L Embossed Carrier Tape

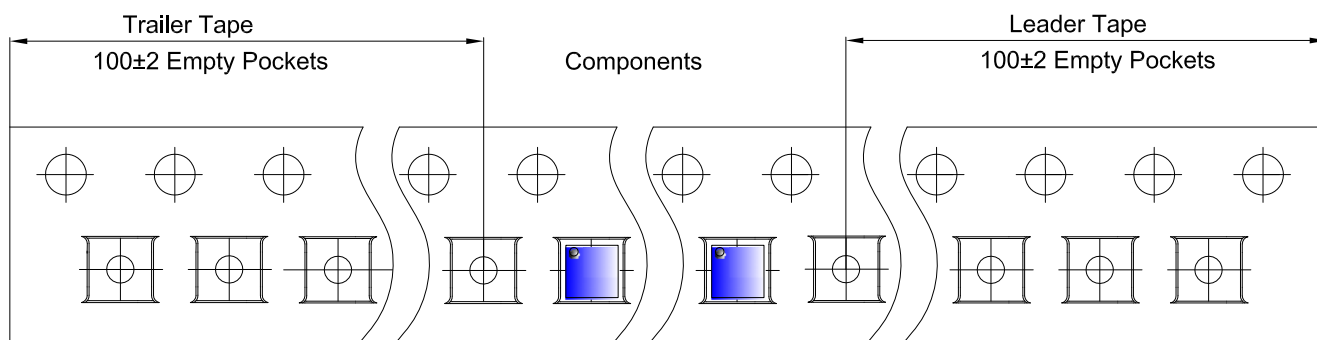


Packaging Description:

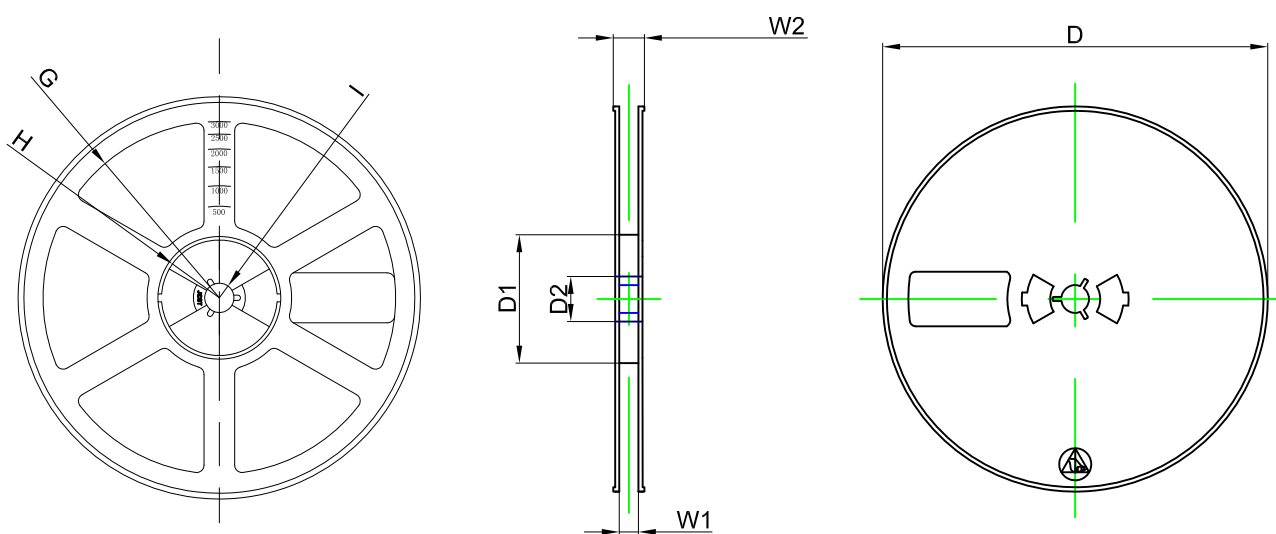
DFNWB2×2-6L parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7" or 18.0cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

Dimensions are in millimeter										
Pkg type	a	B	C	d	E	F	P0	P	P1	W
DFNWB2×2-6L	2.30	2.30	1.10	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

DFNWB2×2-6L Tape Leader and Trailer



DFNWB2×2-6L Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7"Dia	Ø180.00	60.00	13.00	R78.00	R25.60	R6.50	9.50	13.10

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	30,000 pcs	203×203×195	120,000 pcs	438×438×220	