



DFNWB1.0X0.6-2L Plastic-Encapsulate Diodes

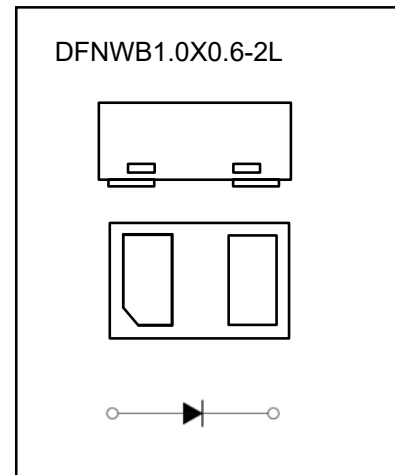
B1040A2 SCHOTTKY BARRIER DIODE

FEATURES

- Low Forward Voltage Drop
- Very Small SMD Package

APPLICATIONS

- Low Voltage Rectification
- High Efficiency DC/DC Conversion
- Switch Mode Power Supply
- Inverse Polarity Protection
- Low Power Consumption Applications



MARKING: 4A



Front side

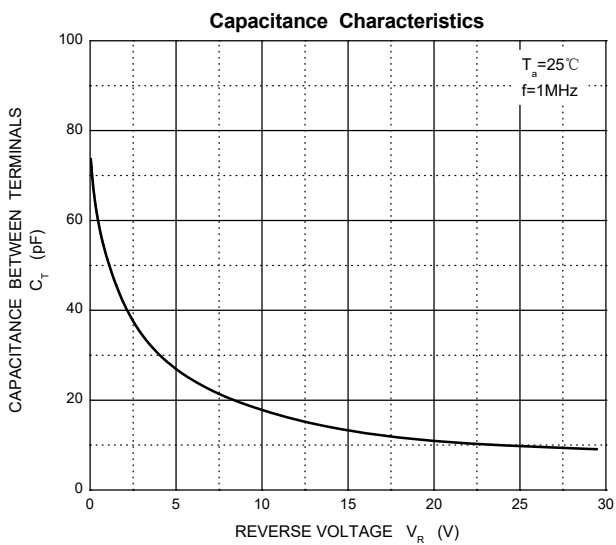
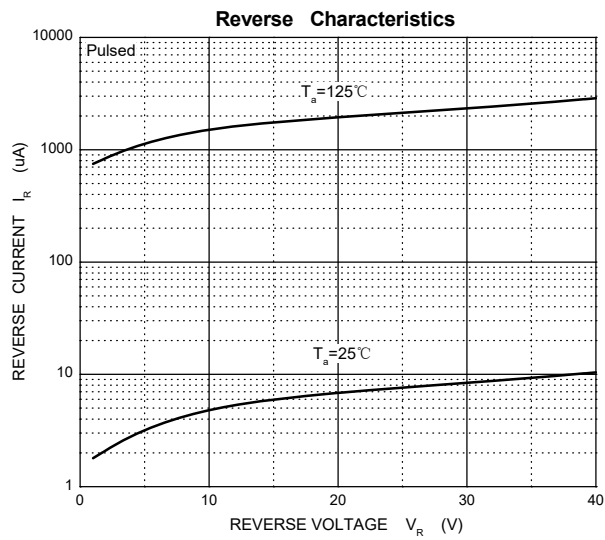
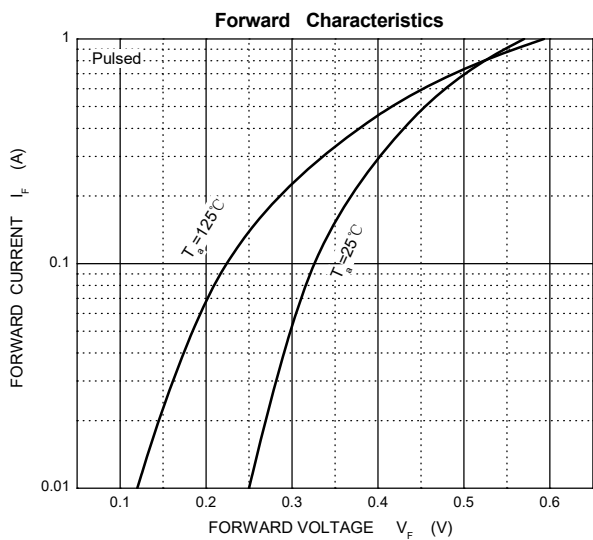
MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{RRM}	Peak Repetitive Reverse Voltage	40	V
V _{RWM}	Working Peak Reverse Voltage		
V _{R(RMS)}	RMS Reverse Voltage	28	V
I _O	Average Rectified Output Current	1	A
I _{FSM}	Non-repetitive Peak Forward Surge Current @ t=8.3ms	7	A
P _D	Power Dissipation (Note 1)	500	mW
R _{θJA}	Thermal Resistance from Junction to Ambient(Note 1)	250	°C/W
T _j	Operating Junction Temperature Range	-40~+125	°C
T _{stg}	Storage Temperature Range	-55~+150	°C

Note: 1.The value of P_D&R_{θJA} is measured with the device mounted on 1 in² FR-4 board with 2oz. Copper, two sided, in a still air environment with T_a=25 C.

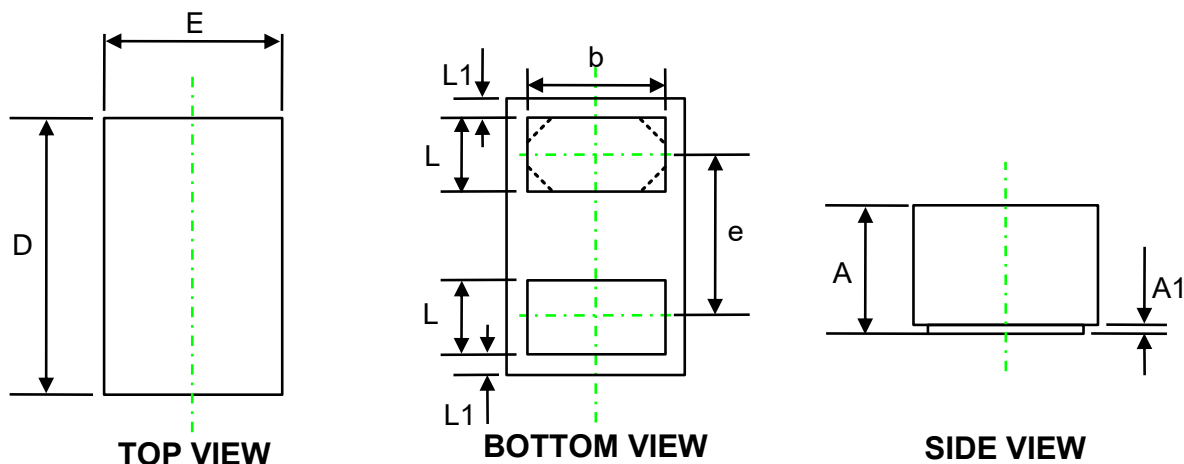
ELECTRICAL CHARACTERISTICS(T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R =1mA	40			V
Reverse current	I _R	V _R =40V		10	40	uA
Forward voltage	V _F	I _F =0.1A		0.33	0.38	V
		I _F =0.2A		0.37	0.40	
		I _F =0.5A		0.45	0.49	
		I _F =0.7A		0.50	0.55	
		I _F =1A		0.57	0.61	
Total capacitance	C _{tot}	V _R =10V,f=1MHz		19		pF



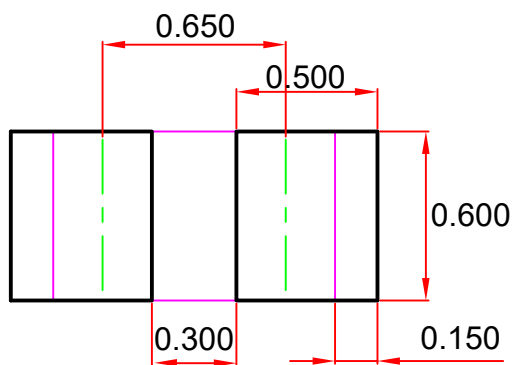
PACKAGE OUTLINE AND PAD LAYOUT INFORMATION

DFNWB1.0x 0.6-2L Package Outline Dimensions



Symbol	Dimensions In Millimeters (mm)		
	Min.	Typ.	Max.
A	0.40	0.45	0.50
A1	0.00	0.03	0.05
D	0.95	1.00	1.08
E	0.55	0.60	0.68
b	0.40	0.50	0.60
e	-	0.65	-
L	0.20	0.25	0.30
L1	0.05 REF.		

DFNWB1.0x 0.6-2L Suggested Pad Layout



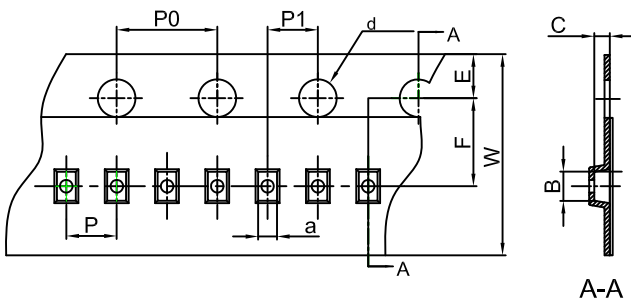
- Note:
1. Controlling dimension: in millimeters.
 2. General tolerance: ± 0.050 mm.
 3. The pad layout is for reference purposes only.

NOTICE

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

TAPE AND REEL INFORMATION

DFN/FBP(1.0×0.6×0.5) Embossed Carrier Tape

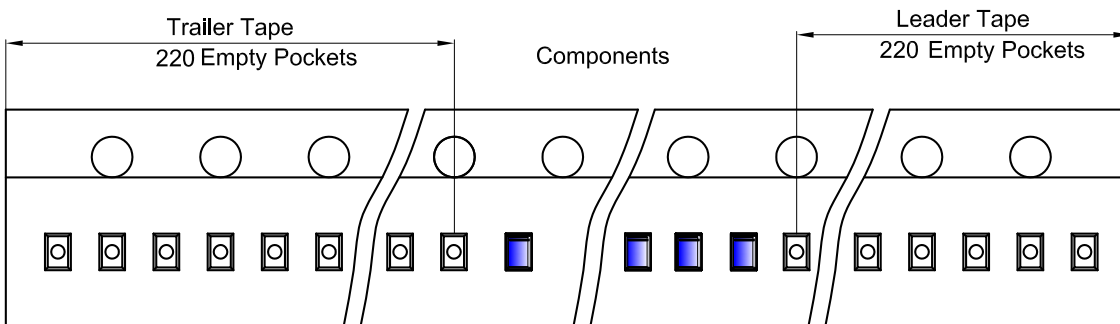


Packaging Description:

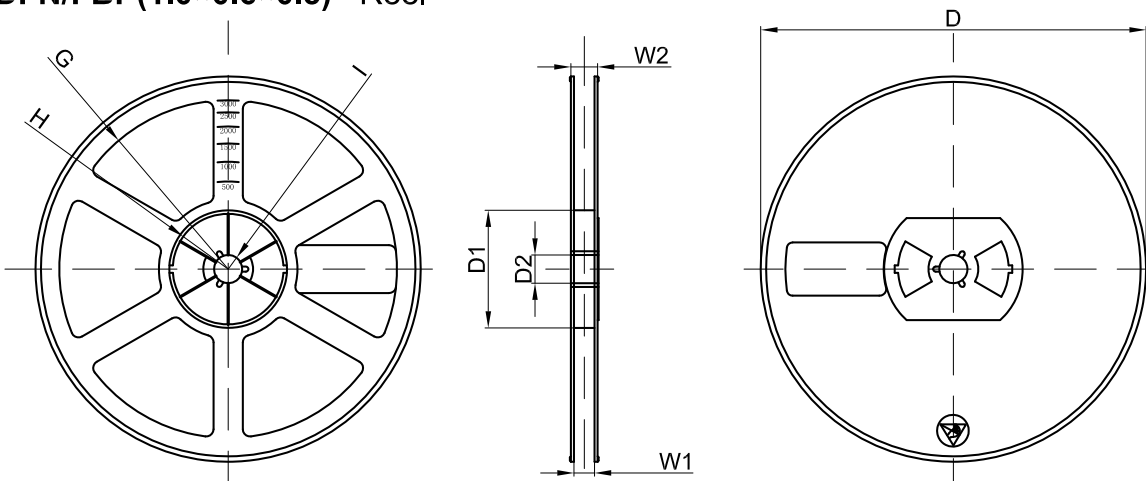
DFN/FBP(1.0×0.6×0.5) parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 10,000 units per 7" or 17.8cm 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
DFN/FBP(1.0×0.6×0.5)	0.66	1.15	0.66	Ø1.50	1.75	3.50	4.00	2.00	2.00	8.00

DFN/FBP(1.0×0.6×0.5) Tape Leader and Trailer



DFN/FBP(1.0×0.6×0.5) Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7" Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
10000 pcs	7 inch	150,000 pcs	203×203×195	600,000 pcs	438×438×220	