



Plastic-Encapsulate Schottky Barrier Diodes

PRIMARY CHARACTERISTICS

V_{RRM}	30V
I_O	100mA
$V_F@I_F=10mA$	0.38V
$T_{J,Max}$	125°C

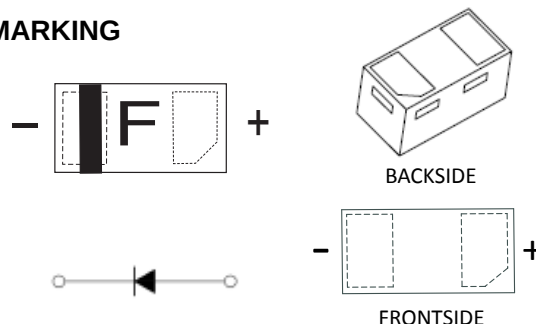
FEATURES

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability
- Moisture Sensitivity Level 1

SCHEMATIC DIAGRAM

DFNWB0.6x0.3 PACKAGE

MARKING



MECHANICAL DATA

- Case : Molded plastic, DFNWB0.6x0.3
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant

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

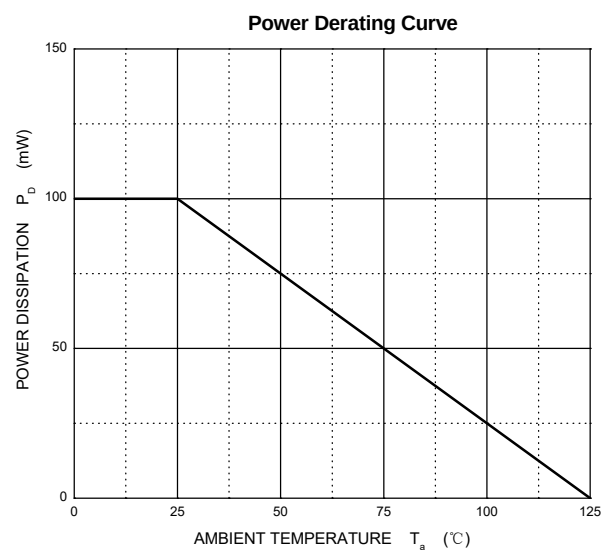
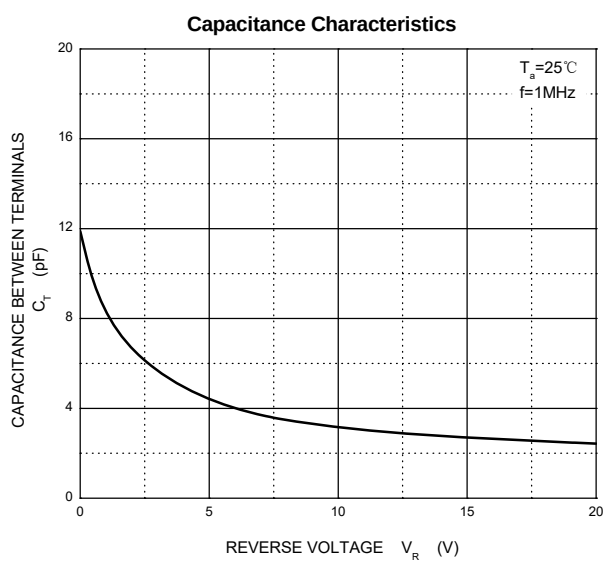
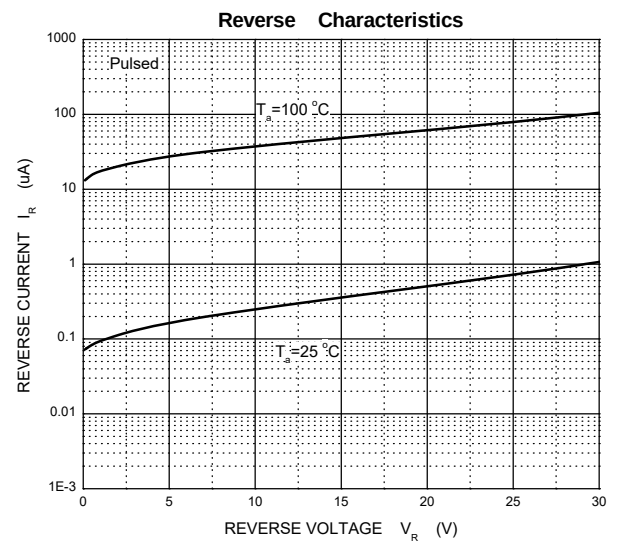
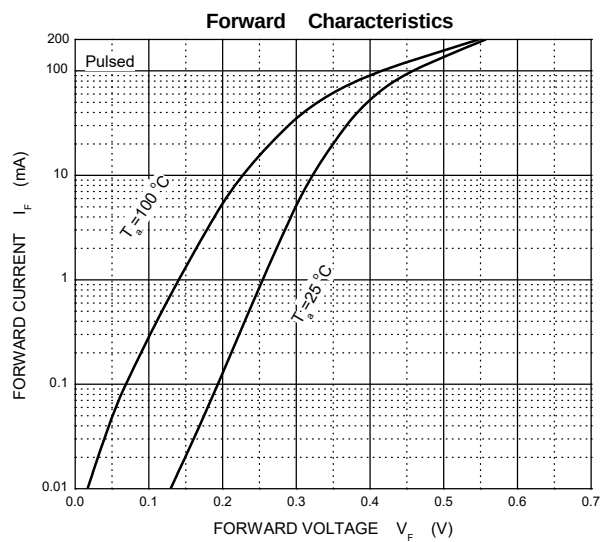
Symbol	Parameter	Limit	Unit
V_{RRM}	Repetitive Peak Reverse Voltage	30	V
V_{RWM}	Working Peak Reverse Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	21	V
I_O	Average Rectified Output Current	100	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current@ $t=8.3ms$	0.5	A
P_d	Power Dissipation	100	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	1000	°C/W
T_J	Operating Junction Temperature Range	-40 ~ +125	°C
T_{stg}	Storage Temperature Range	-55 ~ +150	°C

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=50\mu A$	30			V
Reverse current	I_R	$V_R=10V$		0.25	2	μA
		$V_R=30V$			9	μA
Forward voltage	V_F	$I_F=10mA$			0.38	V
		$I_F=100mA$			0.60	V



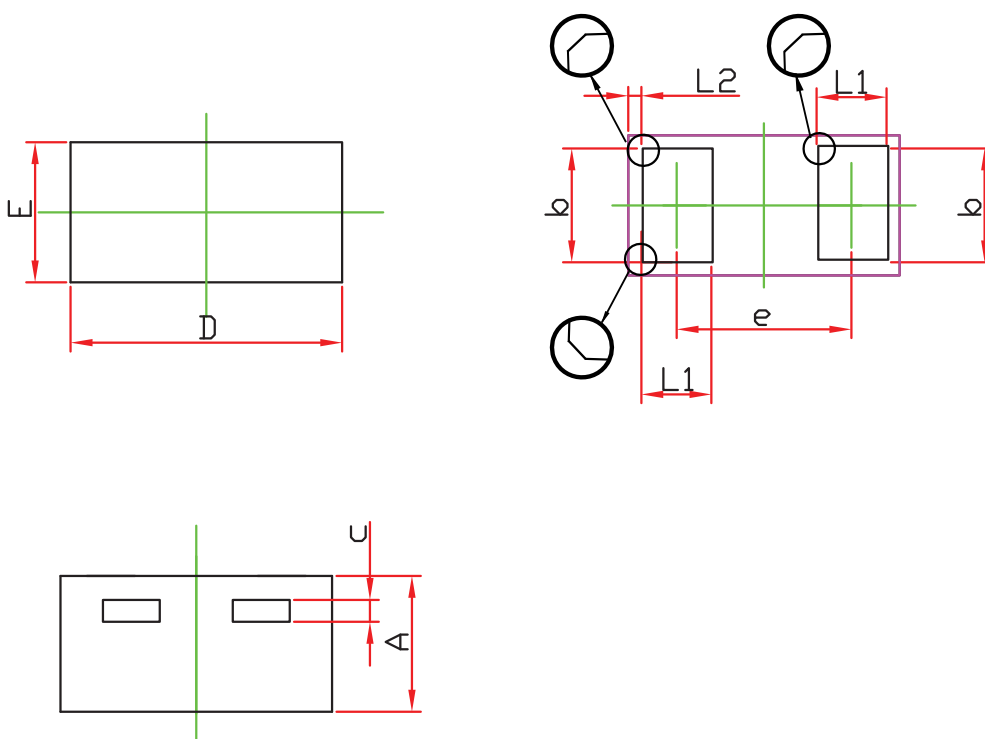
Typical Characteristics





Outline Drawing

DFNWB0.6x0.3



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.270	0.340	0.010	0.013
D	0.550	0.670	0.021	0.026
E	0.250	0.370	0.009	0.015
b	0.200	0.350	0.008	0.014
c	0.050 REF.		0.002 REF.	
e	0.350	0.435	0.014	0.017
L1	0.125	0.230	0.005	0.009
L2	0.030 REF.		0.001 REF.	

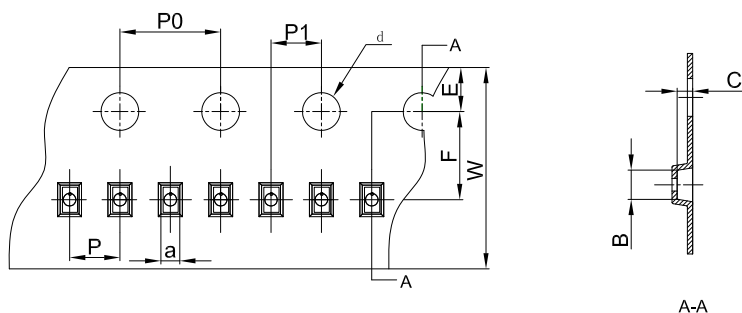
Dimensions in inches and (millimeters)

Rev.C



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DFNWB0.6x0.3-2L Embossed Carrier Tape



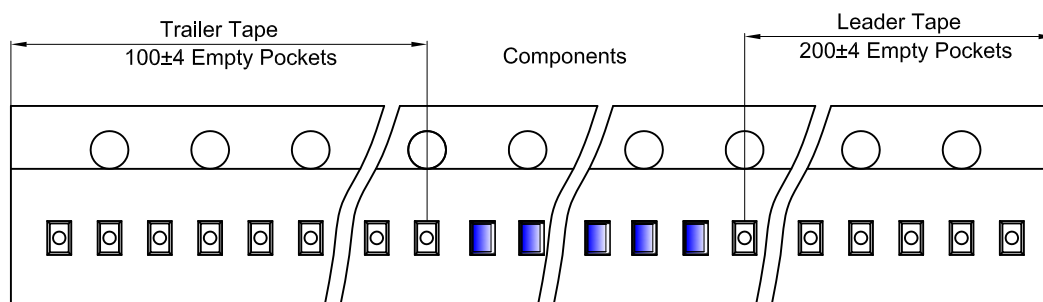
Packaging Description:

DFNWB0.6x0.3-2L 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).

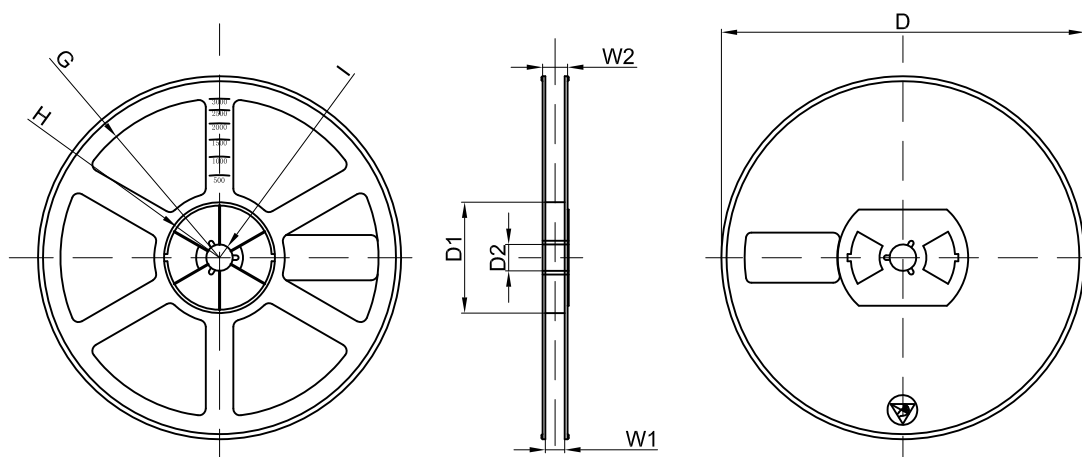
Note: If it is the product of the same polarity, the cathode line should be removed.

Dimensions are in millimeter										
Pkg type	a	B	C	d	E	F	P0	P	P1	W
DFNWB0.6x0.3-2L-B	0.41	0.70	0.38	Ø1.50	1.75	3.50	4.00	2.00	2.00	8.00

DFNWB0.6x0.3-2L Tape Leader and Trailer



DFNWB0.6x0.3-2L 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

**Ordering Information:**

Device PN	Packing
DS521-30DB -T ⁽¹⁾ H ⁽²⁾ -WS ⁽³⁾	Tape&Reel: 10 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) Halogen free product for packing code suffix "H"

(3) WS : Willas brand abbreviation, Label Type does not display

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