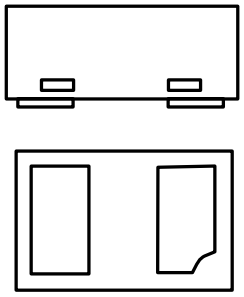
NWB1.0X0.6-02L Plastic-Encapsulate Diodes

DS521-30A1 Schottky barrier Diode

DFNWB1.0X0.6-02L



Feature

- Small surface mounting type
- low forward voltage
- High reliability

Application

- High speed switch for detection
- For portable equipment:(Mobile phone, MP3, MD, CD-ROM, DVD-ROM, Note book PC, etc.)

MARKING



Front Side

Equivalent Circuit



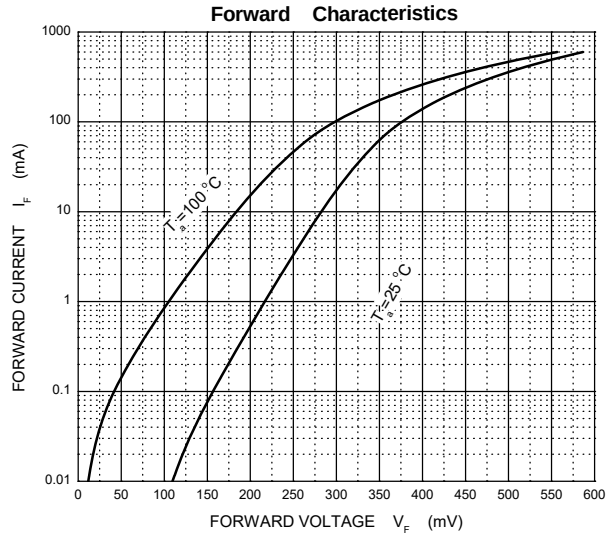
ABSOLUTE MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

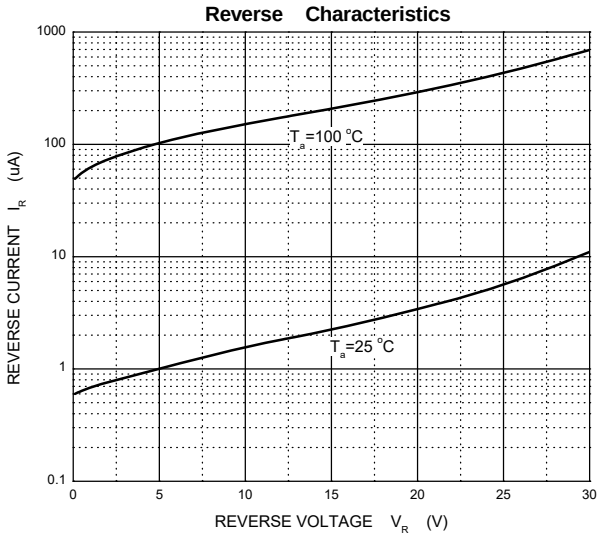
Parameter	Symbol	Value	Unit
DC reverse voltage	V_R	30	V
RMS reverse Voltage	$V_{R(RMS)}$	21	V
Mean rectifying current	I_O	0.2	A
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I_{FSM}	1	A
Power Dissipation	P_D	100	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	1000	℃/W
Operating Junction Temperature Range	T_J	-40 ~ +125	℃
Storage Temperature Range	T_{STG}	-55 ~ +150	℃

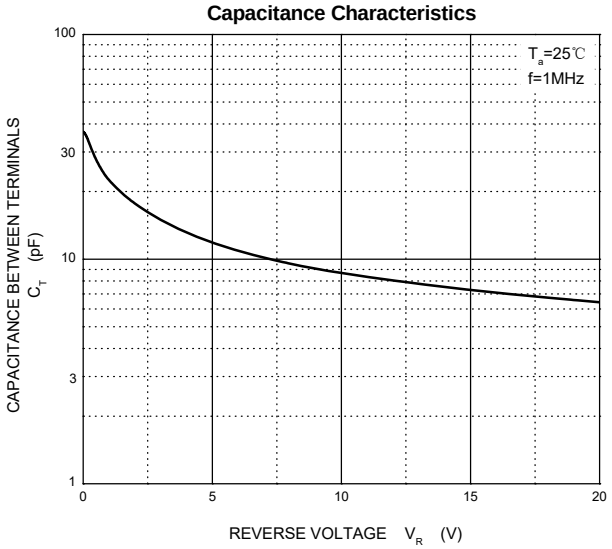
ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise noted)

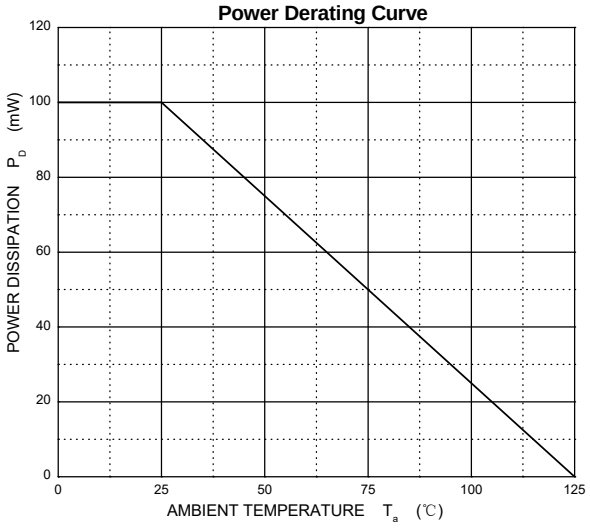
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	V_{BR}	I_R =100uA	30			V
Forward voltage	V_F	I_F =10mA			0.35	V
		I_F =200mA		0.43	0.5	V
Reverse current	I_R	V_R =10V			20	μA
		V_R =30V		10	30	μA

Typical Characteristics



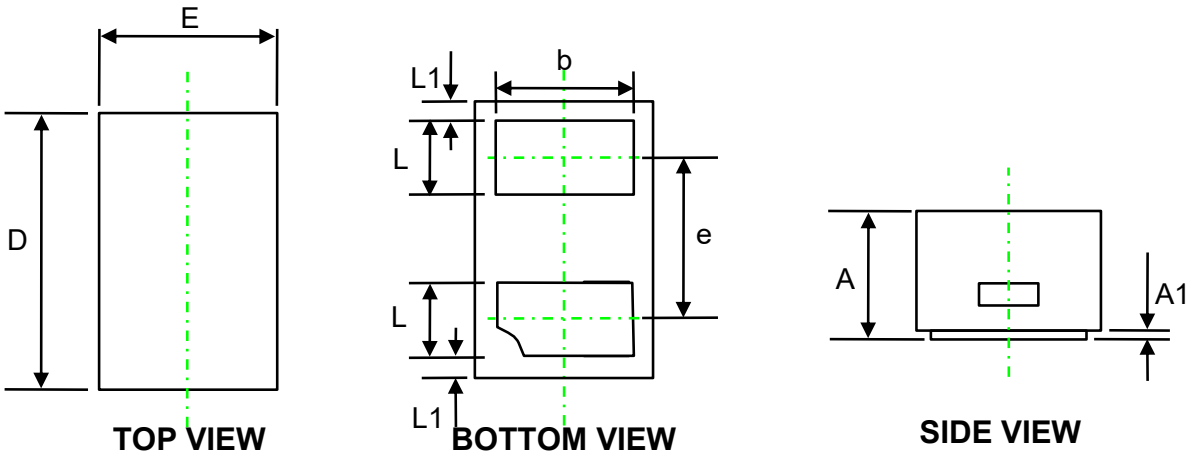






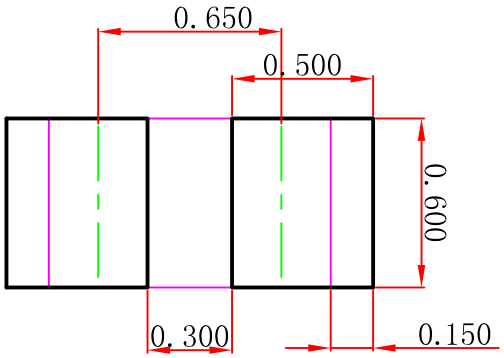
PACKAGE OUTLINE AND PAD LAYOUT INFORMATION

DFNWB1.0×0.6-02L-E Package Outline Dimensions



Symbol	Dimensions In Millimeters (mm)		
	Min.	Typ.	Max.
A	0.44	0.47	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.		

DFNWB1.0×0.6-02L-E Suggested Pad Layout



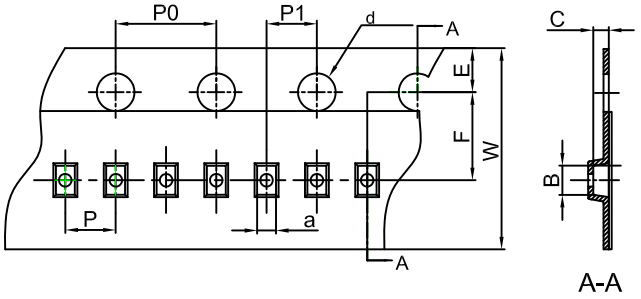
Note:
1.Controlling dimension:in millimeters.
2.General tolerance:± 0.050mm.
3.The pad layout is for reference purposes only.

NOTICE

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

TAPE AND REEL INFORMATION

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

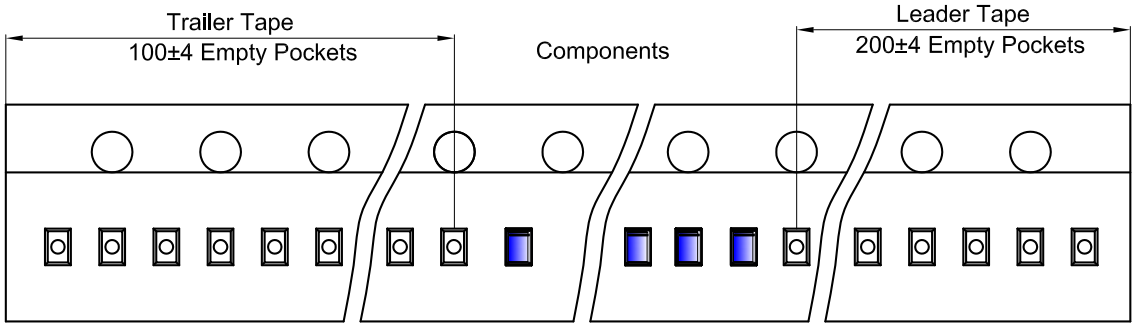


Packaging Description:

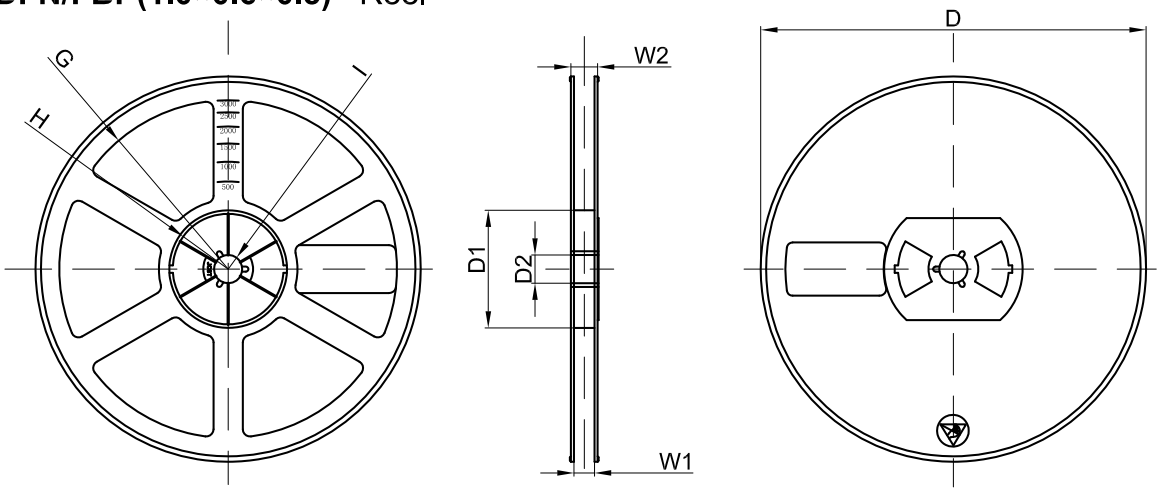
DFN/FBP(1.0×0.6×0.5) parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These 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	