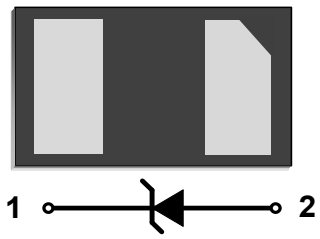
WZ5BxxxF

ZENER DIODE

Features

- General Purpose, Medium Current
- Planar Die Construction
- Zener Voltages From 2.4V-75V



DFN1006-2L

Mechanical Data

- DFN1006-2L Package
- Marking : Making Code
- Packaging: Tape and Reel per EIA 481
- RoHS Compliant & HF
- Device meets MSL1 requirement

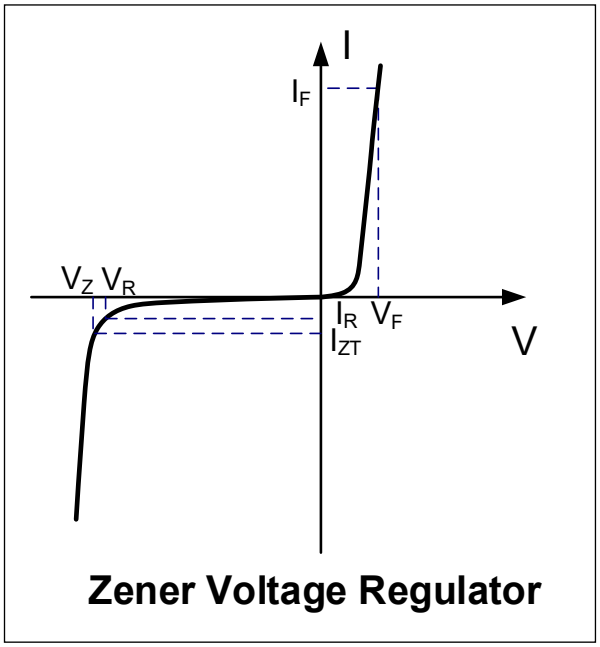
Absolute Maximum Rating (Ta=25℃ Unless otherwise specified)

Parameter	Symbol	Value	Unit
Maximum Forward Voltage @I_F=10mA	V_F	0.9	V
Power Dissipation	P_D	300	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	416	°C/W
Junction Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

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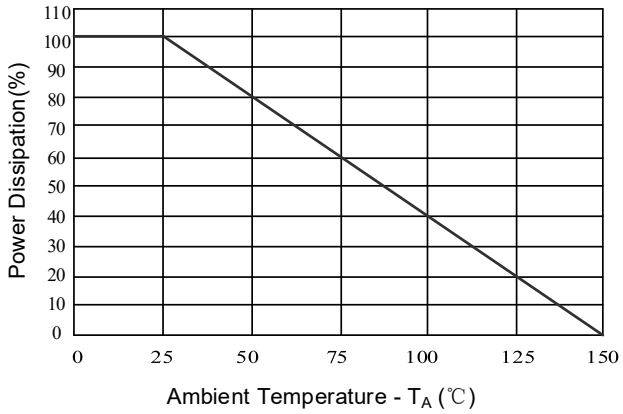
Electrical Parameters (T_a=25℃)

Symbol	Parameter
I_{ZT}	Reverse Current
V_Z	Reverse Zener Voltage @ I_{ZT}
V_R	Reverse Voltage
I_R	Reverse Leakage Current @ V_R
I_F	Forward Current
V_F	Forward Voltage @ I_F



Typical Characteristics

Figure 1: Power Derating Curve

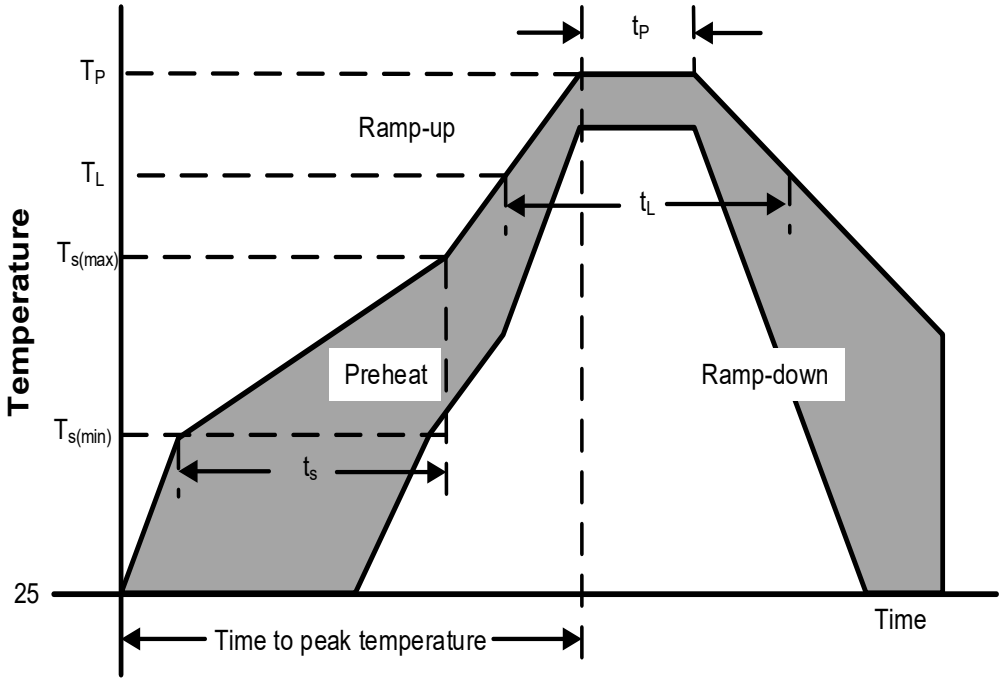


Electrical Characteristics(T_a=25°C unless otherwise noted)

Type Number	Marking	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Current	
		V_Z@I_{ZT}			I_{ZT}	Z_{ZT}@I_{ZT}	Z_{ZK}@I_{ZK}	I_{ZK}	I_R	V_R
		Nom(V)	Min(V)	Max(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)
WZ5B2V4F	A1	2.4	2.32	2.45	5	100	600	1	50	1
WZ5B2V7F	A2	2.7	2.62	2.75	5	100	600	1	20	1
WZ5B3V0F	A3	3	2.9	3.06	5	95	600	1	10	1
WZ5B3V3F	A4	3.3	3.2	3.37	5	95	600	1	5	1
WZ5B3V6F	A5	3.6	3.53	3.67	5	90	600	1	5	1
WZ5B3V9F	A6	3.9	3.82	3.98	5	90	600	1	3	1
WZ5B4V3F	A7	4.3	4.21	4.39	5	90	600	1	3	1
WZ5B4V7F	A8	4.7	4.6	4.8	5	80	500	1	3	2
WZ5B5V1F	A9	5.1	4.99	5.21	5	60	480	1	2	2
WZ5B5V6F	AA	5.6	5.48	5.72	5	40	400	1	1	2
WZ5B6V2F	AB	6.2	6.07	6.33	5	10	150	1	3	4
WZ5B6V8F	AC	6.8	6.66	6.94	5	15	80	1	2	4
WZ5B7V5F	AD	7.5	7.35	7.75	5	15	80	1	1	5
WZ5B8V2F	AE	8.2	8.03	8.37	5	15	80	1	0.7	5
WZ5B9V1F	AF	9.1	8.91	9.29	5	15	100	1	0.5	6
WZ5B10VF	AG	10	9.8	10.2	5	20	150	1	0.2	7
WZ5B11VF	AH	11	10.78	11.22	5	20	150	1	0.1	8
WZ5B12VF	AJ	12	11.76	12.24	5	25	150	1	0.1	8
WZ5B13VF	AK	13	12.74	13.26	5	30	170	1	0.1	8
WZ5B15VF	AL	15	14.7	15.3	5	30	200	1	0.05	10.5
WZ5B16VF	C1	16	15.68	16.32	5	40	200	1	0.05	11.2
WZ5B18VF	C2	18	17.64	18.36	5	45	225	1	0.05	12.6
WZ5B20VF	C3	20	19.6	20.4	5	55	225	1	0.05	14
WZ5B22VF	C4	22	21.56	22.44	5	55	250	1	0.05	15.4
WZ5B24VF	C5	24	23.52	24.48	5	70	250	1	0.05	16.8
WZ5B27VF	C6	27	26.46	27.54	2	80	300	0.5	0.05	18.9
WZ5B30VF	C7	30	29.4	30.6	2	80	300	0.5	0.05	21
WZ5B33VF	C8	33	32.34	33.66	2	80	325	0.5	0.05	23.1
WZ5B36VF	C9	36	35.28	37.5	2	90	350	0.5	0.05	25.2
WZ5B39VF	CA	39	38.22	40.2	2	130	350	0.5	0.05	27.3
WZ5B43VF	CB	43	42.14	43.86	2	150	375	0.5	0.05	30.1
WZ5B47VF	CC	47	46.06	47.94	2	170	375	0.5	0.05	32.9
WZ5B51VF	CD	51	49.98	52.02	2	180	400	0.5	0.05	35.7
WZ5B56VF	CE	56	54.88	57.12	2	200	425	0.5	0.05	39.2
WZ5B62VF	CF	62	60.76	63.24	2	215	450	0.5	0.05	43.4
WZ5B68VF	CG	68	66.64	69.36	2	240	475	0.5	0.05	47.6
WZ5B75VF	CH	75	73.5	76.5	2	255	500	0.5	0.05	52.5

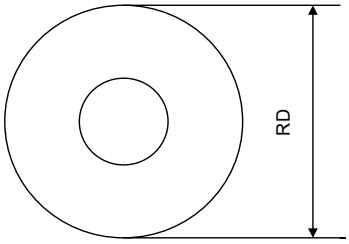
Soldering Parameters

Reflow Condition		Pb – Free assembly
Pre Heat	Temperature Min ($T_{s(min)}$)	150°C
	Temperature Max ($T_{s(max)}$)	200°C
	Time (min to max) (ts)	60 – 190 secs
Average ramp up rate (Liquidus Temp) (T_L) to peak		5°C/second max
$T_{S(max)}$ to T_L——Ramp-up Rate		5°C/second max
Reflow	Temperature (T_L) (Liquidus)	217°C
	Temperature (t_L)	60 – 150 seconds
Peak Temperature (T_P)		260+0/-5 °C
Time within actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes Max.
Do not exceed		280°C

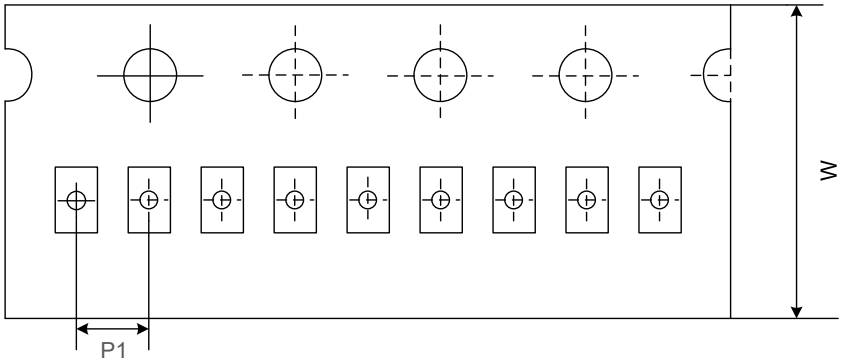


Tape And Reel Information

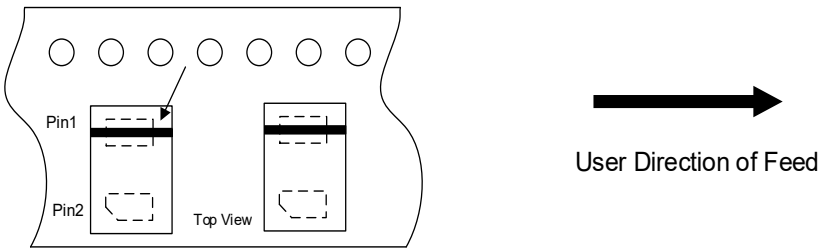
Reel Dimensions



Tape Dimensions



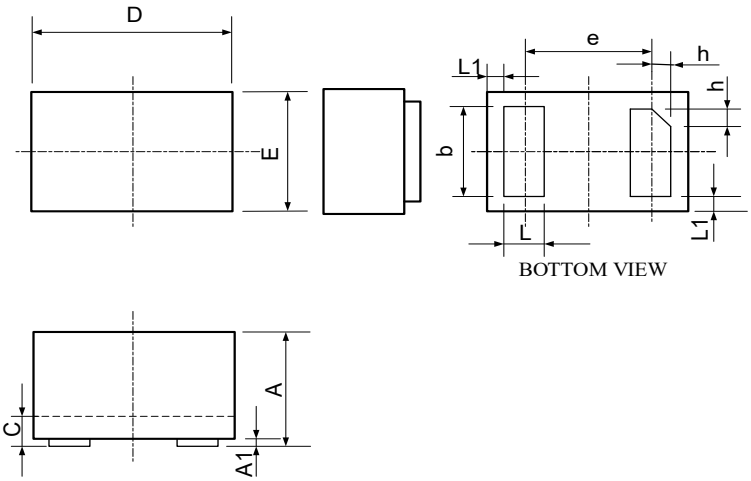
Quadrant Assignments For PIN1 Orientation In Tape

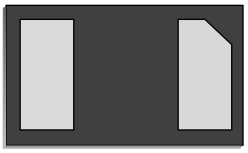


RD	Reel Dimensions	7 inch
W	Overall width of the carrier tape	8 mm
P1	Pitch between successive cavity centers	2 mm

Outline Drawing –DFN1006-2L

PACKAGE OUTLINE

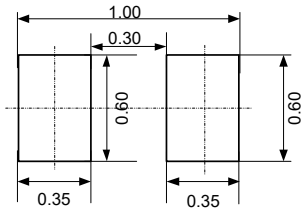




DFN1006-2L

SYMBOL	MILLIMETERS		
	MIN	NOM	MAX
A	0.45	0.50	0.55
A1	0	0.02	0.05
b	0.45	0.50	0.55
C	0.12	0.15	0.18
D	0.95	1.00	1.05
e		0.65BSC	
E	0.55	0.60	0.65
L	0.20	0.25	0.30
L1		0.05REF	
h	0.07	0.12	0.17

Land Pattern



Package Information

Qty：10k/Reel

CONTACT INFORMATION

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WAYON website: **http://www.way-on.com**
For additional information, please contact your local Sales Representative.

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2. The product parameters described in the product specification are numerical values, characteristics, and functions obtained through actual testing or theoretical calculations of the product in an independent or ideal state. Due to the complexity of product applications and variations in test conditions and equipment, there may be slight fluctuations in parameter test values. WAYON shall not guarantee that the actual performance of the product when installed in the customer's system or equipment will be entirely consistent with the product specification, especially concerning dynamic parameters. It is recommended that users consult with professionals for product selection and system design. Users should also thoroughly validate and assess whether the actual parameters and performance when installed in their respective systems or equipment meet their requirements or expectations. Additionally, users should exercise caution in verifying product compatibility issues, and WAYON assumes no responsibility for the application of the product.

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