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Jameco Part Number 1956987

1N5221B - 1N5263B

Zener Diodes

Tolerance = 5%



DO-35 Glass case
COLOR BAND DENOTES CATHODE

Absolute Maximum Ratings *

T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P _D	Power Dissipation Derate above 50°C	500 4.0	mW mW/°C
T _{STG}	Storage Temperature Range	-65 to +200	°C
T _J	Maximum Junction Operating Temperature	+200	°C
	Lead Temperature (1/16" from case for 10 seconds)	+230	°C

* These ratings are limiting values above which the serviceability of the diode may be impaired.

** Non-recurrent square wave PW = 8.3ms, T_a = 50 degrees C.

Electrical Characteristics

T_A = 25°C unless otherwise noted

Device	V _Z (V) @ I _Z (Note 1)			Z _Z (Ω) @ I _Z (mA)		Z _{ZK} (Ω) @ I _{ZK} (mA)		I _R (μA) @ V _R (V)		T _C (%/°C)
	Min.	Typ.	Max.							
1N5221B	2.28	2.4	2.52	30	20	1,200	0.25	100	1.0	-0.085
1N5222B	2.375	2.5	2.625	30	20	1,250	0.25	100	1.0	-0.085
1N5223B	2.565	2.7	2.835	30	20	1,300	0.25	75	1.0	-0.080
1N5224B	2.66	2.8	2.94	30	20	1,400	0.25	75	1.0	-0.080
1N5225B	2.85	3	3.15	29	20	1,600	0.25	50	1.0	-0.075
1N5226B	3.135	3.3	3.465	28	20	1,600	0.25	25	1.0	-0.07
1N5227B	3.42	3.6	3.78	24	20	1,700	0.25	15	1.0	-0.065
1N5228B	3.705	3.9	4.095	23	20	1,900	0.25	10	1.0	-0.06
1N5229B	4.085	4.3	4.515	22	20	2,000	0.25	5.0	1.0	+/-0.055
1N5230B	4.465	4.7	4.935	19	20	1,900	0.25	2.0	1.0	+/-0.03
1N5231B	4.845	5.1	5.355	17	20	1,600	0.25	5.0	2.0	+/-0.03
1N5232B	5.32	5.6	5.88	11	20	1,600	0.25	5.0	3.0	0.038
1N5233B	5.7	6	6.3	7.0	20	1,600	0.25	5.0	3.5	0.038
1N5234B	5.89	6.2	6.51	7.0	20	1,000	0.25	5.0	4.0	0.045
1N5235B	6.46	6.8	7.14	5.0	20	750	0.25	3.0	5.0	0.05
1N5236B	7.125	7.5	7.875	6.0	20	500	0.25	3.0	6.0	0.058
1N5237B	7.79	8.2	8.61	8.0	20	500	0.25	3.0	6.5	0.062
1N5238B	8.265	8.7	9.135	8.0	20	600	0.25	3.0	6.5	0.065
1N5239B	8.645	9.1	9.555	10	20	600	0.25	3.0	7.0	0.068
1N5240B	9.5	10	10.5	17	20	600	0.25	3.0	8.0	0.075

Device	V_Z (V) @ I_Z (Note 1)			Z_Z (Ω) @ I_Z (mA)		Z_{ZK} (Ω) @ I_{ZK} (mA)		I_R (μ A) @ V_R (V)		T_C (%/°C)
	Min.	Typ.	Max.							
1N5241B	10.45	11	11.55	22	20	600	0.25	2.0	8.4	0.076
1N5242B	11.4	12	12.6	30	20	600	0.25	0.1	9.1	0.077
1N5243B	12.35	13	13.65	13	9.5	600	0.25	0.1	9.9	0.079
1N5244B	13.3	14	14.7	15	9.0	600	0.25	0.1	10	0.080
1N5245B	14.25	15	15.75	16	8.5	600	0.25	0.1	11	0.082
1N5246B	15.2	16	16.8	17	7.8	600	0.25	0.1	12	0.083
1N5247B	16.15	17	17.85	19	7.4	600	0.25	0.1	13	0.084
1N5248B	17.1	18	18.9	21	7.0	600	0.25	0.1	14	0.085
1N5247B	18.05	19	19.95	23	6.6	600	0.25	0.1	14	0.085
1N5250B	19	20	21	25	6.2	600	0.25	0.1	15	0.086
1N5251B	20.9	22	23.1	29	5.6	600	0.25	0.1	17	0.087
1N5252B	22.8	24	25.2	33	5.2	600	0.25	0.1	18	0.088
1N5253B	23.75	25	26.25	35	5.0	600	0.25	0.1	19	0.088
1N5254B	25.65	27	28.35	41	4.6	600	0.25	0.1	21	0.089
1N5255B	26.6	28	29.4	44	4.5	600	0.25	0.1	21	0.090
1N5256B	28.5	30	31.5	49	4.2	600	0.25	0.1	23	0.09
1N5257B	31.35	33	34.65	58	3.8	700	0.25	0.1	25	0.092
1N5258B	34.2	36	37.8	70	3.4	700	0.25	0.1	27	0.093
1N5259B	37.05	39	40.95	80	3.2	800	0.25	0.1	30	0.094
1N5260B	40.85	43	45.15	93	3.0	900	0.25	0.1	33	0.095
1N5261B	44.65	47	49.35	105	2.7	1000	0.25	0.1	36	0.095
1N5262B	48.45	51	53.55	125	2.5	1100	0.25	0.1	39	0.096
1N5263B	53.2	56	58.8	150	2.2	1300	0.25	0.1	43	0.096

V_F Forward Voltage = 1.2V Max. @ I_F = 200mA

Notes:

1. Zener Voltage (V_Z)

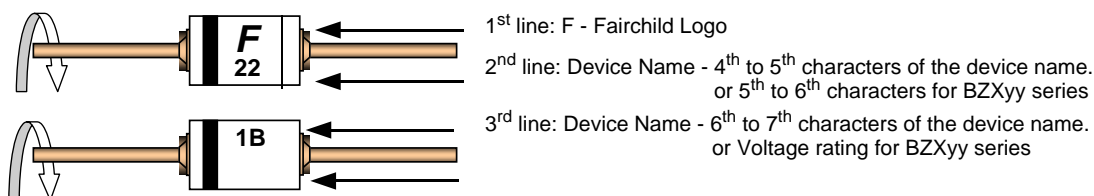
The zener voltage is measured with the device junction in the thermal equilibrium at the lead temperature (T_L) at $30^\circ\text{C} \pm 1^\circ\text{C}$ and 3/8" lead length

Top Mark Information

Device	Line 1	Line 2	Line 3
1N5221B	LOGO	22	1B
1N5222B	LOGO	22	2B
1N5223B	LOGO	22	3B
1N5224B	LOGO	22	4B
1N5225B	LOGO	22	5B
1N5226B	LOGO	22	6B
1N5227B	LOGO	22	7B
1N5228B	LOGO	22	8B
1N5229B	LOGO	22	9B
1N5230B	LOGO	23	0B
1N5231B	LOGO	23	1B
1N5232B	LOGO	23	2B
1N5233B	LOGO	23	3B
1N5234B	LOGO	23	4B
1N5235B	LOGO	23	5B
1N5236B	LOGO	23	6B
1N5237B	LOGO	23	7B
1N5238B	LOGO	23	8B
1N5239B	LOGO	23	9B
1N5240B	LOGO	24	0B
1N5241B	LOGO	24	1B
1N5242B	LOGO	24	2B
1N5243B	LOGO	24	3B
1N5244B	LOGO	24	4B
1N5245B	LOGO	24	5B

1N5246B	LOGO	24	6B
1N5247B	LOGO	24	7B
1N5248B	LOGO	24	8B
1N5247B	LOGO	24	9B
1N5250B	LOGO	25	0B
1N5251B	LOGO	25	1B
1N5252B	LOGO	25	2B
1N5253B	LOGO	25	3B
1N5254B	LOGO	25	4B
1N5255B	LOGO	25	5B
1N5256B	LOGO	25	6B
1N5257B	LOGO	25	7B
1N5258B	LOGO	25	8B
1N5259B	LOGO	25	9B
1N5260B	LOGO	26	0B
1N5261B	LOGO	26	1B
1N5262B	LOGO	26	2B
1N5263B	LOGO	26	3B

Top Mark Information (Continued)



General Requirements:

- 1.0 Cathode Band
- 2.0 First Line: F - Fairchild Logo
- 3.0 Second Line: Device name - For 1Nxx series: 4th to 5th characters of the device name.
For BZxx series: 5th to 6th characters of the device name.
- 4.0 Third Line: Device name - For 1Nxx series: 6th to 7th characters of the device name.
For BZXyy series: Voltage rating
- 5.0 Devices shall be marked as required in the device specification (PID or FSC Test Spec).
- 6.0 Maximum no. of marking lines: 3
- 7.0 Maximum no. of digits per line: 2
- 8.0 FSC logo must be 20 % taller than the alphanumeric marking and should occupy the 2 characters of the specified line.
- 9.0 Marking Font: Arial (Except FSC Logo)
- 10.0 First character of each marking line must be aligned vertically.
- 11.0 All device markings must be based on Fairchild device specification.



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EnSigna [™]	OCXPro [™]	SuperFET [™]	
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FACT [®]	OPTOPLANAR [™]	SuperSOT [™] -6	
FAST [®]	PACMAN [™]	SuperSOT [™] -8	
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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.

Rev. 123

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1N5262B

Zener Diode

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Product status/pricing/packaging

BUY

Product	Product status	Pb-free Status	Pricing*	Package type	Leads	Packing method	Package Marking Convention**
1N5262B	Full Production	 Full Production	\$0.0218	DO-35	2	BULK	Line 1: \$Y (Fairchild logo) Line 2: 526 Line 3: 2B Line 4: &2
1N5262B_T50A	Full Production	 Full Production	N/A	DO-35	2	AMMO	Line 1: \$Y (Fairchild logo) Line 2: 526 Line 3: 2B Line 4: &2
1N5262B_T50R	Full Production	 Full Production	N/A	DO-35	2	TAPE REEL	Line 1: \$Y (Fairchild logo) Line 2: 526 Line 3: 2B Line 4: &2

* Fairchild 1,000 piece Budgetary Pricing

** A sample button will appear if the part is available through Fairchild's on-line samples program. If there is no sample button, please contact a [Fairchild distributor](#) to obtain samples



Indicates product with Pb-free second-level interconnect. For more information [click here](#).

Package marking information for product 1N5262B is available. [Click here for more information](#).

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Qualification Support

Click on a product for detailed qualification data

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