

Zeners 1N5226B - 1N5257B

Zeners (1N5226B - 1N5257B)

Absolute Maximum Ratings*

$T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
P_D	Power Dissipation	500	mW
	Derate above 75°C	4.0	mW/ $^\circ\text{C}$
T_{STG}	Storage Temperature Range	-65 to +200	$^\circ\text{C}$
T_J	Maximum Junction Operating Temperature	+ 200	$^\circ\text{C}$
	Lead Temperature (1/16" from case for 10 seconds)	+ 230	$^\circ\text{C}$
	Surge Power**	10	W

Tolerance: B = 5%



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

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

NOTES:

- 1) These ratings are based on a maximum junction temperature of 200 degrees C.
- 2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Electrical Characteristics

$T_A = 25^\circ\text{C}$ unless otherwise noted

Device	V_Z (V)	Z_Z (Ω)	@ I_{ZT} (mA)	Z_{ZK} (Ω)	@ I_{ZK} (mA)	V_R (V)	@ I_R (μA)	T_C (%/ $^\circ\text{C}$)
1N5226B	3.3	28	20	1,600	0.25	1.0	25	- 0.07
1N5227B	3.6	24	20	1,700	0.25	1.0	15	- 0.065
1N5228B	3.9	23	20	1,900	0.25	1.0	10	- 0.06
1N5229B	4.3	22	20	2,000	0.25	1.0	5.0	+/- 0.055
1N5230B	4.7	19	20	1,900	0.25	2.0	5.0	+/- 0.03
1N5231B	5.1	17	20	1,600	0.25	2.0	5.0	+/- 0.03
1N5232B	5.6	11	20	1,600	0.25	3.0	5.0	0.038
1N5233B	6.0	7.0	20	1,600	0.25	3.5	5.0	0.038
1N5234B	6.2	7.0	20	1,000	0.25	4.0	5.0	0.045
1N5235B	6.8	5.0	20	750	0.25	5.0	3.0	0.05
1N5236B	7.5	6.0	20	500	0.25	6.0	3.0	0.058
1N5237B	8.2	8.0	20	500	0.25	6.5	3.0	0.062
1N5238B	8.7	8.0	20	600	0.25	6.5	3.0	0.065
1N5239B	9.1	10	20	600	0.25	7.0	3.0	0.068
1N5240B	10	17	20	600	0.25	8.0	3.0	0.075
1N5241B	11	22	20	600	0.25	8.4	2.0	0.076

V_F Forward Voltage = 1.1 V Maximum @ $I_F = 200$ mA for all 1N5200 series

Zeners (1N5226B - 1N5257B)

(continued)

Electrical Characteristics (Continued)

$T_A = 25^\circ\text{C}$ unless otherwise noted

Device	V_Z (V)	Z_Z (Ω)	I_{ZT} (mA)	Z_{ZK} (Ω)	I_{ZK} (mA)	V_R (V)	I_R (μA)	T_C (%/ $^\circ\text{C}$)
1N5242B	12	30	20	600	0.25	9.1	0.1	0.077
1N5243B	13	13	9.5	600	0.25	9.9	0.1	0.079
1N5244B	14	15	9.0	600	0.25	10	0.1	0.080
1N5245B	15	16	8.5	600	0.25	11	0.1	0.082
1N5246B	16	17	7.8	600	0.25	12	0.1	0.083
1N5247B	17	19	7.4	600	0.25	13	0.1	0.084
1N5248B	18	21	7.0	600	0.25	14	0.1	0.085
1N5249B	19	23	6.6	600	0.25	14	0.1	0.085
1N5250B	20	25	6.2	600	0.25	15	0.1	0.086
1N5251B	22	29	5.6	600	0.25	17	0.1	0.087
1N5252B	24	33	5.2	600	0.25	18	0.1	0.088
1N5253B	25	35	5.0	600	0.25	19	0.1	0.088
1N5254B	27	41	4.6	600	0.25	21	0.1	0.089
1N5255B	28	44	4.5	600	0.25	21	0.1	0.090
1N5256B	30	49	4.2	600	0.25	23	0.1	0.091
1N5257B	33	58	3.8	700	0.25	25	0.1	0.092

V_F Forward Voltage = 1.1 V Maximum @ $I_F = 200$ mA for all 1N5200 series

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1N5235BTR	Full Production	\$0.053	DO-35	2	\$Y 1N5 235 B STD CATHODE	TAPE REEL

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Product	Product status	Pricing*	Package type	Leads	Package marking	Packing method
1N5238BTR	Full Production	\$0.053	DO-35	2	\$Y 1N5 238 B STD CATHODE	TAPE REEL
1N5238B	Full Production	\$0.053	DO-35	2	\$Y 1N5 238 B STD CATHODE BAN	BULK

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Product	Product status	Pricing*	Package type	Leads	Package marking	Packing method
1N5239B	Full Production	\$0.053	DO-35	2	\$Y 1N5 239 B STD CATHODE BAN	BULK
1N5239BTR	Full Production	\$0.053	DO-35	2	\$Y 1N5 239 B STD CATHODE	TAPE REEL

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Product	Product status	Pricing*	Package type	Leads	Package marking	Packing method
1N5240BTR	Full Production	\$0.053	DO-35	2	\$Y 1N5 240 B STD CATHODE	TAPE REEL
1N5240B	Full Production	\$0.053	DO-35	2	\$Y 1N5 240 B STD CATHODE BAN	BULK

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1N5241BTR	Full Production	\$0.053	DO-35	2	\$Y 1N5 241 B STD CATHODE	TAPE REEL
1N5241B	Full Production	\$0.053	DO-35	2	\$Y 1N5 241 B STD CATHODE BAN	BULK

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1N5242BTR	Full Production	\$0.053	DO-35	2	\$Y 1N5 242 B STD CATHODE	TAPE REEL

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1N5244B	Full Production	\$0.053	DO-35	2	\$Y 1N5 244 B STD CATHODE	BULK
1N5244BTR	Full Production	\$0.053	DO-35	2	\$Y 1N5 244 B STD CATHODE	TAPE REEL

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1N5246B	Full Production	\$0.053	DO-35	2	\$Y 1N5 246 B STD CATHODE BAN	BULK
1N5246BTR	Full Production	\$0.053	DO-35	2	\$Y 1N5 246 B STD CATHODE	TAPE REEL

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1N5247BTR	Full Production	\$0.053	DO-35	2	\$Y 1N5 247 B STD CATHODE	TAPE REEL

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1N5249B	Full Production	\$0.053	DO-35	2	\$Y 1N5 249 B STD CATHODE BAN	BULK

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1N5253BTR	Full Production	\$0.053	DO-35	2	\$Y 1N5 253 B	TAPE REEL

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1N5254BTR	Full Production	\$0.053	DO-35	2	\$Y 1N5 254 B	TAPE REEL

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1N5248BTR	Full Production	\$0.053	DO-35	2	\$Y 1N5 248 B STD CATHODE	TAPE REEL

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1N5251B	Full Production	\$0.053	DO-35	2	\$Y 1N5 251 B STD CATHODE BAN	BULK

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1N5250BTR	Full Production	\$0.053	DO-35	2	\$Y 1N5 250 B	TAPE REEL

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Product	Product status	Pricing*	Package type	Leads	Package marking	Packing method
1N5256B	Full Production	\$0.053	DO-35	2	\$Y 1N5 256 B STD CATHODE BAN	BULK
1N5256BTR	Full Production	\$0.053	DO-35	2	\$Y 1N5 256 B	TAPE REEL

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Product	Product status	Pricing*	Package type	Leads	Package marking	Packing method
1N5243BTR	Full Production	\$0.053	DO-35	2	\$Y 1N5 243 B STD CATHODE	TAPE REEL
1N5243B	Full Production	\$0.053	DO-35	2	\$Y 1N5 243 B STD CATHODE BAN	BULK

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1N5257BTR	Full Production	\$0.053	DO-35	2	\$Y 1N5 257 B	TAPE REEL
1N5257B	Full Production	\$0.053	DO-35	2	\$Y 1N5 257 B STD CATHODE BAN	BULK

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