

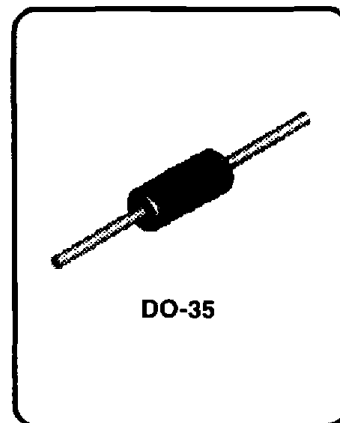
## 1N5226B - 1N5257B Series Half Watt Zeners

### Absolute Maximum Ratings\*

TA = 25°C unless otherwise noted

Parameter	Value	Units
Storage Temperature Range	-65 to +200	°C
Maximum Junction Operating Temperature	+ 200	°C
Lead Temperature (1/16" from case for 10 seconds)	+ 230	°C
Total Device Dissipation	500	mW
Derate above 25°C	4.0	mW/°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= 55 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

TA = 25°C unless otherwise noted

Device	V <sub>Z</sub> (V)	Z <sub>Z</sub> (Ω)	@	I <sub>ZT</sub> (mA)	Z <sub>ZK</sub> (Ω)	@	I <sub>ZK</sub> (mA)	V <sub>R</sub> (V)	@	I <sub>R</sub> (μA)	T <sub>C</sub> (%/°C)
<b>1N5226B</b>	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
<b>1N5228B</b>	3.9	23		20	1,900		0.25	1.0		10	- 0.06
<b>1N5229B</b>	4.3	22		20	2,000		0.25	1.0		5.0	+/- 0.055
<b>1N5230B</b>	4.7	19		20	1,900		0.25	2.0		5.0	+/- 0.03
<b>1N5231B</b>	5.1	17		20	1,600		0.25	2.0		5.0	+/- 0.03
<b>1N5232B</b>	5.6	11		20	1,600		0.25	3.0		5.0	0.038
<b>1N5233B</b>	6.0	7.0		20	1,600		0.25	3.5		5.0	0.038
<b>1N5234B</b>	6.2	7.0		20	1,000		0.25	4.0		5.0	0.045
<b>1N5235B</b>	6.8	5.0		20	750		0.25	5.0		3.0	0.05
<b>1N5236B</b>	7.5	6.0		20	500		0.25	6.0		3.0	0.058
<b>1N5237B</b>	8.2	8.0		20	500		0.25	6.5		3.0	0.062
<b>1N5238B</b>	8.7	8.0		20	600		0.25	6.5		3.0	0.065
<b>1N5239B</b>	9.1	10		20	600		0.25	7.0		3.0	0.068
<b>1N5240B</b>	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
<b>1N5242B</b>	12	30		20	600		0.25	9.1		1.0	0.077

V<sub>F</sub> Forward Voltage = 1.1 V Maximum @ I<sub>F</sub> = 200 mA for all 1N5200 seriesNOTE: National preferred devices in **BOLD**

**Series Zener**  
(continued)

**Electrical Characteristics** (continued) TA = 25°C unless otherwise noted

Device	V <sub>Z</sub> (V)	Z <sub>Z</sub> (Ω)	@	I <sub>ZT</sub> (mA)	Z <sub>ZK</sub> (Ω)	@	I <sub>ZK</sub> (mA)	V <sub>R</sub> (V)	@	I <sub>R</sub> (nA)	T <sub>C</sub> (%/°C)
<b>1N5243B</b>	13	13		9.5	600		0.25	9.9		500	0.079
<b>1N5244B</b>	14	15		9.0	600		0.25	10		100	0.082
<b>1N5245B</b>	15	16		8.5	600		0.25	11		100	0.082
<b>1N5246B</b>	16	17		7.8	600		0.25	12		100	0.083
<b>1N5247B</b>	17	19		7.4	600		0.25	13		100	0.084
<b>1N5248B</b>	18	21		7.0	600		0.25	14		100	0.085
<b>1N5249B</b>	19	23		6.6	600		0.25	14		100	0.086
<b>1N5250B</b>	20	25		6.2	600		0.25	15		100	0.086
<b>1N5251B</b>	22	29		5.6	600		0.25	17		100	0.087
<b>1N5252B</b>	24	33		5.2	600		0.25	18		100	0.088
<b>1N5253B</b>	25	35		5.0	600		0.25	19		100	0.089
<b>1N5254B</b>	27	41		4.6	600		0.25	21		100	0.090
<b>1N5255B</b>	28	44		4.5	600		0.25	21		100	0.091
<b>1N5256B</b>	30	49		4.2	600		0.25	23		100	0.091
<b>1N5257B</b>	33	58		3.8	700		0.25	25		100	0.092

V<sub>F</sub> Forward Voltage = 1.1 V Maximum @ I<sub>F</sub> = 200 mA for all 1N5200 series

NOTE: National preferred devices in **BOLD**