

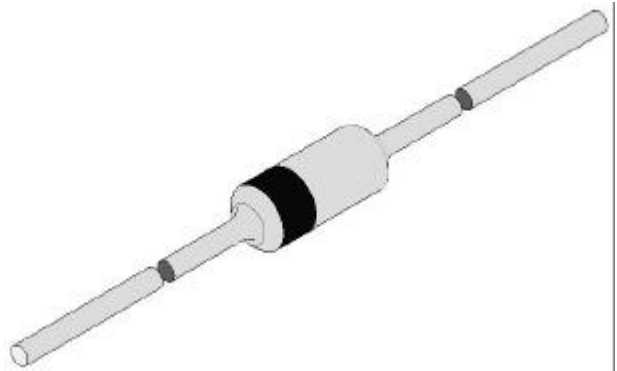
Zener diode

Features

1. High reliability
2. Very sharp reverse characteristic
3. Low reverse current level
4. V_Z -tolerance $\pm 5\%$

Applications

Voltage stabilization



Absolute Maximum Ratings

$T_J = 25^\circ\text{C}$

Parameter	Test Conditions	Type	Symbol	Value	Unit
Power dissipation	$T_{\text{amb}} = 75^\circ\text{C}$		P_V	500	mW
Z-current			I_Z	P_V/V_Z	mA
Junction temperature			T_J	200	?
Storage temperature range			T_{stg}	-65~+200	?

Maximum Thermal Resistance

$T_J = 25^\circ\text{C}$

Parameter	Test Conditions	Symbol	Value	Unit
Junction ambient	$l = 9.5\text{mm (3/8")}$ $T_L = \text{constant}$	R_{thJA}	300	K/W

Electrical Characteristics

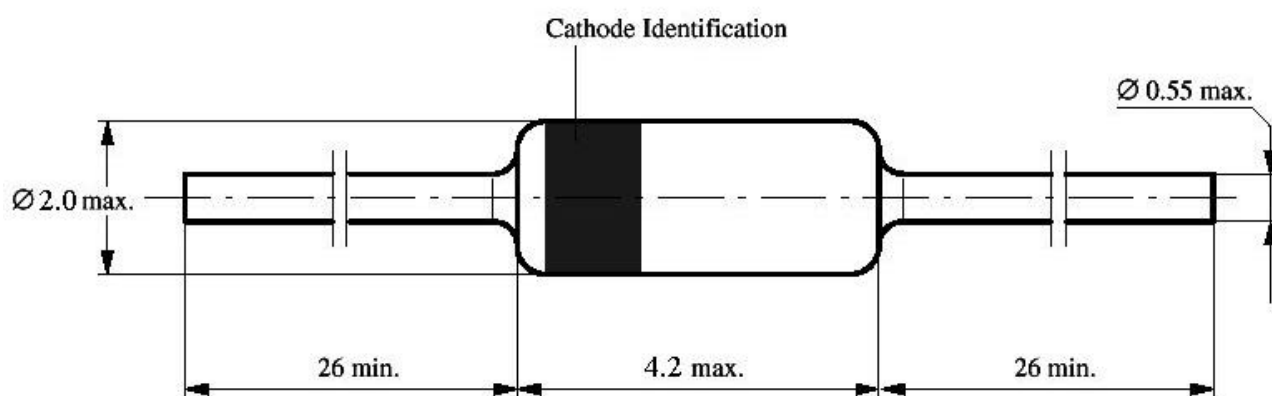
$T_J = 25^\circ\text{C}$

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 200\text{mA}$		V_F			1.1	V

Type	$V_{Znom}^{1)}$ V	I_{ZT} mA	for r_{zT} 0	r_{zK} at I_K 0 mA	I_R at V_R μA V	TK_{VZ} %/K
1N5221B	2.4	20	<30	<1200	0.25 <100	1.0 <-0.085
1N5222B	2.5	20	<30	<1250	0.25 <100	1.0 <-0.085
1N5223B	2.7	20	<30	<1300	0.25 <75	1.0 <-0.080
1N5224B	2.8	20	<30	<1400	0.25 <75	1.0 <-0.080
1N5225B	3.0	20	<29	<1600	0.25 <50	1.0 <-0.075
1N5226B	3.3	20	<28	<1600	0.25 <25	1.0 <-0.070
1N5227B	3.6	20	<24	<1700	0.25 <15	1.0 <-0.065
1N5228B	3.9	20	<23	<1900	0.25 <10	1.0 <-0.060
1N5229B	4.3	20	<22	<2000	0.25 <5	1.0 <+0.055
1N5230B	4.7	20	<19	<1900	0.25 <5	2.0 <+0.030
1N5231B	5.1	20	<17	<1600	0.25 <5	2.0 <+0.030
1N5232B	5.6	20	<11	<1600	0.25 <5	3.0 <+0.038
1N5233B	6.0	20	<7	<1600	0.25 <5	3.5 <+0.038
1N5234B	6.2	20	<7	<1000	0.25 <5	4.0 <+0.045
1N5235B	6.8	20	<5	<750	0.25 <3	5.0 <+0.050
1N5236B	7.5	20	<6	<500	0.25 <3	6.0 <+0.058
1N5237B	8.2	20	<8	<500	0.25 <3	6.5 <+0.062
1N5238B	8.7	20	<8	<600	0.25 <3	6.5 <+0.065
1N5239B	9.1	20	<10	<600	0.25 <3	7.0 <+0.068
1N5240B	10	20	<17	<600	0.25 <3	8.0 <+0.075
1N5241B	11	20	<22	<600	0.25 <2	8.4 <+0.076
1N5242B	12	20	<30	<600	0.25 <1	9.1 <+0.077
1N5243B	13	9.5	<13	<600	0.25 <0.5	9.9 <+0.079
1N5244B	14	9.0	<15	<600	0.25 <0.1	10 <+0.082
1N5245B	15	8.5	<16	<600	0.25 <0.1	11 <+0.082
1N5246B	16	7.8	<17	<600	0.25 <0.1	12 <+0.083
1N5247B	17	7.4	<19	<600	0.25 <0.1	13 <+0.084
1N5248B	18	7.0	<21	<600	0.25 <0.1	14 <+0.085
1N5249B	19	6.6	<23	<600	0.25 <0.1	15 <+0.086
1N5250B	20	6.2	<25	<600	0.25 <0.1	16 <+0.086
1N5251B	22	5.6	<29	<600	0.25 <0.1	17 <+0.087
1N5252B	24	5.2	<33	<600	0.25 <0.1	18 <+0.088
1N5253B	25	5.0	<35	<600	0.25 <0.1	19 <+0.089
1N5254B	27	4.6	<41	<600	0.25 <0.1	21 <+0.090
1N5255B	28	4.5	<44	<600	0.25 <0.1	21 <+0.091
1N5256B	30	4.2	<49	<600	0.25 <0.1	23 <+0.091
1N5257B	33	3.8	<58	<700	0.25 <0.1	25 <+0.092
1N5258B	36	3.4	<70	<700	0.25 <0.1	27 <+0.093
1N5259B	39	3.2	<80	<800	0.25 <0.1	30 <+0.094
1N5260B	43	3.0	<93	<900	0.25 <0.1	33 <+0.095
1N5261B	47	2.7	<105	<1000	0.25 <0.1	36 <+0.095
1N5262B	51	2.5	<125	<1100	0.25 <0.1	39 <+0.096
1N5263B	56	2.2	<150	<1300	0.25 <0.1	43 <+0.096
1N5264B	60	2.1	<170	<1400	0.25 <0.1	46 <+0.097
1N5265B	62	2.0	<185	<1400	0.25 <0.1	47 <+0.097
1N5266B	68	1.8	<230	<1600	0.25 <0.1	52 <+0.097
1N5267B	75	1.7	<270	<1700	0.25 <0.1	58 <+0.098

1) Based on DC-measurement at thermal equilibrium while maintaining the lead temperature(T_L) at 30° ,
9.5mm(3/8") from the diode body.

Dimensions in mm



Standard Glass Case
JEDEC DO 35