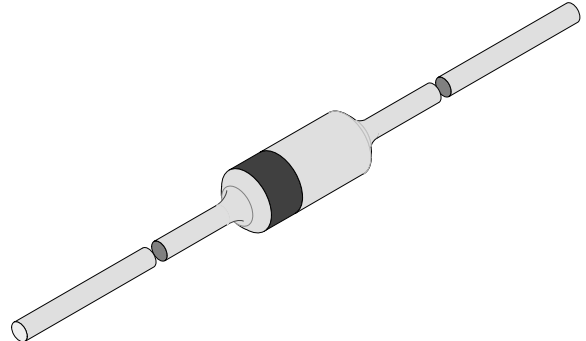


# Silicon Z-Diodes

## Features

- Very sharp reverse characteristic
- Very high stability
- Low reverse current level
- $V_Z$ -tolerance  $\pm 5\%$



94 9367

## Applications

Voltage stabilization

## Absolute Maximum Ratings

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

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

## 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

# 1N5221B...1N5267B

Type	$V_{Znom}^{1)}$	$I_{ZT}$ for	$r_{zIT}$	$r_{zik}$ at	$I_{ZK}$	$I_R$ at	$V_R$	$TK_{VZ}$
	V	mA	$\Omega$	$\Omega$	mA	$\mu A$	V	%/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	14	< +0.086
1N5250B	20	6.2	< 25	< 600	0.25	< 0.1	15	< +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	56	< +0.098

1) Based on dc-measurement at thermal equilibrium; lead length = 9.5mm (3/8"); thermal resistance of heat sink = 30K/W

## Dimensions in mm



technical drawings  
according to DIN  
specifications

94 9366

Standard Glass Case  
54 A 2 DIN 41880  
JEDEC DO 35  
Weight max. 0.3 g

