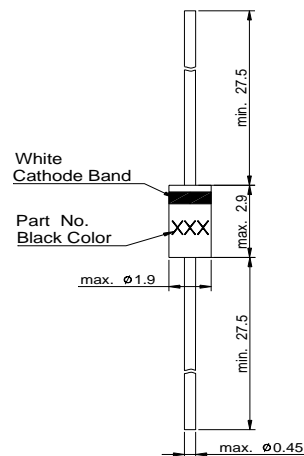


SILICON PLANAR ZENER DIODES



Glass case JEDEC DO-34
Dimensions in mm

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

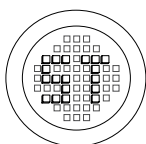
Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	500 ¹⁾	mW
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_s	-65 to +175	$^\circ\text{C}$

¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

Characteristics at $T_{amb} = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	-	0.3 ¹⁾	K/mW

¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.



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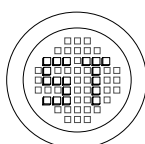
BS Series

Characteristics at T_a = 25 °C

Type	Zener Voltage ¹⁾			Dynamic Resistance		Reverse Leakage Current (I _R at V _R)	
	Min. (V)	Max. (V)	I _{ZT} (mA)	Ohm at I _{ZT}	I _{ZT} (mA)	I _R (μA) Max.	V _R (V)
2.0BS	1.88	2.20	5	100	5	120	0.5
2.0BSA	1.88	2.10					
2.0BSB	2.02	2.20					
2.2BS	2.12	2.41	5	100	5	120	0.7
2.2BSA	2.12	2.30					
2.2BSB	2.22	2.41					
2.4BS	2.33	2.63	5	100	5	120	1
2.4BSA	2.33	2.52					
2.4BSB	2.43	2.63					
2.7BS	2.54	2.91	5	110	5	100	1
2.7BSA	2.54	2.75					
2.7BSB	2.69	2.91					
3.0BS	2.85	3.22	5	120	5	50	1
3.0BSA	2.85	3.07					
3.0BSB	3.01	3.22					
3.3BS	3.16	3.53	5	120	5	20	1
3.3BSA	3.16	3.38					
3.3BSB	3.32	3.53					
3.6BS	3.47	3.83	5	120	5	10	1
3.6BSA	3.47	3.68					
3.6BSB	3.62	3.83					
3.9BS	3.77	4.14	5	120	5	5	1
3.9BSA	3.77	3.98					
3.9BSB	3.92	4.14					
4.3BS	4.05	4.53	5	120	5	5	1
4.3BSA	4.05	4.26					
4.3BSB	4.20	4.40					
4.3BSC	4.34	4.53					
4.7BS	4.47	4.91	5	100	5	5	1
4.7BSA	4.47	4.65					
4.7BSB	4.59	4.77					
4.7BSC	4.71	4.91					
5.1BS	4.85	5.35	5	70	5	5	1.5
5.1BSA	4.85	5.03					
5.1BSB	4.97	5.18					
5.1BSC	5.12	5.35					

¹⁾ Tested with pulse t_p = 40ms

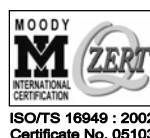
²⁾ Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.



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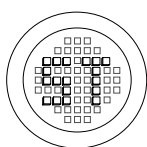
BS Series

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Type	Zener Voltage ¹⁾			Dynamic Resistance		Reverse Leakage Current (I_R at V_R)	
	Min. (V)	Max. (V)	I_{ZT} (mA)	Ohm at I_{ZT}	I_{ZT} (mA)	I_R (μA) Max.	V_R (V)
5.6BS	5.29	5.88	5	40	5	5	2.5
5.6BSA	5.29	5.52					
5.6BSB	5.46	5.70					
5.6BSC	5.64	5.88					
6.2BS	5.81	6.40	5	30	5	5	3
6.2BSA	5.81	6.06					
6.2BSB	5.99	6.24					
6.2BSC	6.16	6.40					
6.8BS	6.32	6.97	5	25	5	2	3.5
6.8BSA	6.32	6.59					
6.8BSB	6.52	6.79					
6.8BSC	6.70	6.97					
7.5BS	6.88	7.64	5	25	5	0.5	4
7.5BSA	6.88	7.19					
7.5BSB	7.11	7.41					
7.5BSC	7.33	7.64					
8.2BS	7.56	8.41	5	20	5	0.5	5
8.2BSA	7.56	7.90					
8.2BSB	7.82	8.15					
8.2BSC	8.07	8.41					
9.1BS	8.33	9.29	5	20	5	0.5	6
9.1BSA	8.33	8.70					
9.1BSB	8.61	8.99					
9.1BSC	8.89	9.29					
10BS	9.19	10.30	5	20	5	0.2	7
10BSA	9.19	9.59					
10BSB	9.48	9.90					
10BSC	9.82	10.3					

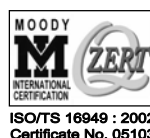
¹⁾ Tested with pulse $t_p = 40\text{ms}$

²⁾ Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.



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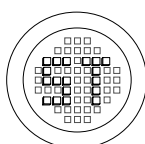
BS Series

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Type	Zener Voltage ¹⁾			Dynamic Resistance		Reverse Leakage Current (I_R at V_R)	
	Min. (V)	Max. (V)	I_{ZT} (mA)	Ohm at I_{ZT}	I_{ZT} (mA)	I_R (μA) Max.	V_R (V)
11BS	10.18	11.26	5	20	5	0.2	8
11BSA	10.18	10.63					
11BSB	10.50	10.95					
11BSC	10.82	11.26					
12BS	11.13	12.30	5	25	5	0.2	9
12BSA	11.13	11.63					
12BSB	11.50	11.92					
12BSC	11.80	12.30					
13BS	12.18	13.62	5	25	5	0.2	10
13BSA	12.18	12.71					
13BSB	12.59	13.16					
13BSC	13.03	13.62					
15BS	13.48	15.02	5	25	5	0.2	11
15BSA	13.48	14.09					
15BSB	13.95	14.56					
15BSC	14.42	15.02					
16BS	14.87	16.50	5	25	5	0.2	12
16BSA	14.87	15.50					
16BSB	15.33	15.96					
16BSC	15.79	16.50					
18BS	16.34	18.30	5	30	5	0.2	13
18BSA	16.34	17.06					
18BSB	16.90	17.67					
18BSC	17.51	18.30					
20BS	18.14	20.45	5	30	5	0.2	15
20BSA	18.14	18.96					
20BSB	18.80	19.68					
20BSC	19.52	20.45					
22BS	20.23	22.61	5	30	5	0.2	17
22BSA	20.23	21.08					
22BSB	20.76	21.65					
22BSC	21.22	22.09					
22BSD	21.68	22.61					
24BS	22.26	24.81	5	35	5	0.2	19
24BSA	22.26	23.12					
24BSB	22.75	23.73					
24BSC	23.29	24.27					
24BSD	23.81	24.81					

¹⁾ Tested with pulse $t_p = 40\text{ms}$

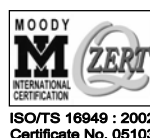
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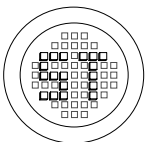
BS Series

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Type	Zener Voltage ¹⁾			Dynamic Resistance		Reverse Leakage Current (I_R at V_R)	
	Min. (V)	Max. (V)	I_{ZT} (mA)	Ohm at I_{ZT}	I_{ZT} (mA)	I_R (μA) Max.	V_R (V)
27BS	24.26	27.64	5	45	5	0.2	21
27BSA	24.26	25.52					
27BSB	24.97	26.26					
27BSC	25.63	26.95					
27BSD	26.29	27.64					
30BS	26.99	30.51	5	55	5	0.2	23
30BSA	26.99	28.39					
30BSB	27.70	29.13					
30BSC	28.36	29.82					
30BSD	29.02	30.51					
33BS	29.68	33.11	5	65	5	0.2	25
33BSA	29.68	31.22					
33BSB	30.32	31.88					
33BSC	30.90	32.50					
33BSD	31.49	33.11					
36BS	32.14	35.77	5	75	5	0.2	27
36BSA	32.14	33.79					
36BSB	32.79	34.49					
36BSC	33.40	35.13					
36BSD	34.01	35.77					
39BS	34.68	38.52	5	85	5	0.2	30
39BSA	34.68	36.47					
39BSB	35.36	37.19					
39BSC	36.00	37.85					
39BSD	36.63	38.52					

¹⁾ Tested with pulse $t_p = 40\text{ms}$

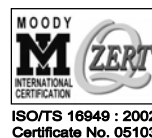
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