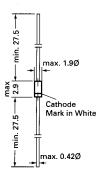
BS Series SILICON PLANAR ZENER DIODE

Silicon Planar Zener Diodes



Glass case JEDEC DO-34

Dimensions in mm

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

	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
Power Dissipation at T _{amb} = 25 °C	P _{tot}	500 ¹⁾	mW
Junction Temperature	T _i	175	°C
Storage Temperature Range	T _s	-65 to + 175	°C
1) Valid provided that leads are kept at ambient temper	erature at a distance of 8 mm	from case	v den u

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

	Symbol	Min.	Тур.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R _{thA}	-	-	0.31)	K/mW
Forward Voltage at I _F = 100 mA	V _F	-	-	1	V
Valid provided that leads are kept at ambient temp	perature at a dista	nce of 8 mm	from case		





BS Series SILICON PLANAR ZENER DIODE

Characteristics at Tj = 25 °C

TYPE	Zener Voltage			Dynamic F	Resistance	Reverse Leakage Current (I _R at V _R)	
DO-34	Min. (V)	Max (V)	i _{zt} (mA)	Ohm at I _{zτ}	I _{ZT} (mA)	I _R (uA) Max.	V _R (V)
2.0 BS	1.88	2.20	(11,7)				
2.0 BSA	1.88	2.10	5	100	5	120	0.5
2.0 BSB	2.02	2.20					
2.2 BS	2.12	2.41					
2.2 BSA	2.12	2.30	5	100	5	120	0.7
2.2 BSB	2.22	2.41	1				
2.4 BS	2.33	2.63				+	
2.4 BSA	2.33	2.52	5	100	5	120	1.0
2.4 BSB	2.43	2.63	1				
2.7 BS	2.54	2.91			•		
2.7 BSA	2.54	2.75	5	110	5	100	1.0
2.7 BSB	2.69	2.91	1 -		-		
3.0 BS	2.85	3.22					
3.0 BSA	2.85	3.07	5	120	5	50	1.0
3.0 BSB	3.01	3.22	1				
3.3 BS	3.16	3.53			5	20	1.0
3.3 BSA	3.16	3.38	5	120			
3.3 BSB	3.32	3.53		125			
3.6 BS	3.47	3.83		120	5	10	1.0
3.6 BSA	3.47	3.68	5				
3.6 BSB	3.62	3.83	1				
3.9 BS	3.77	4.14				1	
3.9 BSA	3.77	3.98	5	120	5	. 5	1.0
3.9 BSB	3.92	4.14					
4.3 BS	4.05	4.53					
4.3 BSA	4.05	4.26	-		5	5	1.0
4.3 BSB	4.20	4.40	5	120			
4.3 BSC	4.34	4.53	1				
4.7 BS	4.47	4.91					
4.7 BSA	4.47	4.65		100	5		1.0
4.7 BSB	4.59	4.77	5			5	
4.7 BSC	4.71	4.91					
5.1 BS	4.85	5.35					
5.1 BSA	4.85	5.03		70	5	5	1.5
5.1 BSB	4.97	5.18	5				
5.1 BSC	5.12	5.35	1				
5.6 BS	5.29	5.88					
5.6 BSA	5.29	5.52			5	5	2.5
5.6 BSB	5.46	5.70	5	40			
5.6 BSC	5.64	5.88					
6.2 BS	5.81	6.40					
6.2 BSA	5.81	6.06					
6.2 BSB	5.99	6.24	5	30	5	5	3.0
6.2 BSC	6.16	6.40	1				

¹⁾ Tested with pulse tp = 40 ms.

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



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BS Series SILICON PLANAR ZENER DIODE

Characteristics at Tj = 25 °C

TYPE		Zener Voltage			Resistance Reverse Leakaç Current (I _R at V			
DO-34	Min. (V)	Max (V)	I _{ZT} (mA)	Ohm at I _{zT}	I _{zτ} (mA)	I _R (uA) Max.		
6.8 BS	6.32	6.97	(111/2)	+				
6.8 BSA	6.32	6.59	-					
6.8 BSB	6.52	6.79	5	25	5	2	3.5	
6.8 BSC	6.70	6.97						
7.5 BS	6.88	7.64						
7.5 BSA	6.88	7.19	+					
7.5 BSB	7.11	7.41	5	25	5	0.5	4.0	
7.5 BSC	7.33	7.64	1 ~					
8.2 BS	7.56	8.41	-					
8.2 BSA	7.56	7.90	1	20	5	0.5	5.0	
8.2 BSB	7.82	8.15	5					
8.2 BSC	8.07	8.41	1					
9.1 BS	8.33	9.29			· · · · · · · · · · · · · · · · · · ·		ļ	
9.1 BSA	8.33	8.70	1	20	5	0.5	6.0	
9.1 BSB	8.61	8.99	5					
9.1 BSC	8.89	9.29	†					
10 BS	9.19	10.30				1		
10 BSA	9.19	9.59	-					
10 BSB	9.48	9.90	5	20	5	0.2	7.0	
10 BSC	9.82	10.30						
11 BS	10.18	11.26		<u> </u>				
11 BSA	10.18	10.63	_					
11 BSB	10.50	10.95	5	20	5	0.2	8.0	
11 BSC	10.82	11.26	1	1				
12 BS	11.13	12.30						
12 BSA	11.13	11.63						
12 BSB	11.50	11.92	5	25	5	0.2	9.0	
12 BSC	11.80	12.30						
13 BS	12.18	13.62						
13 BSA	12.18	12.71	1			0.2	10	
13 BSB	12.59	13.16	5	25	5			
13 BSC	13.03	13.62						
15 BS	13.48	15.02						
15 BSA	13.48	14.09						
15 BSB	13.95	14.56	5	25	5	0.2	11	
15 BSC	14.42	15.02						
16 BS	14.87	16.50		-	77			
16 BSA	14.87	15.50						
16 BSB	15.33	15.96	5	5	25	5	0.2	12
16 BSC	15.79	16.50						
18 BS	16.34	18.30					******	
18 BSA	16.34	17.06						
18 BSB	16.90	17.67	5	30	5	0.2	13	
18 BSC	17.51	18.30	1					

¹⁾ Tested with pulse tp = 40 ms.

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



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