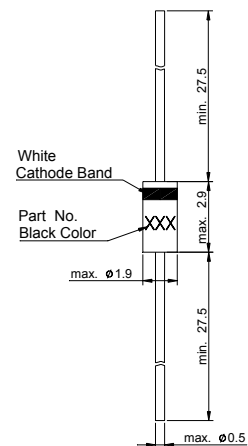


BC Series

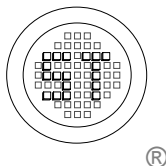
GENERAL PURPOSE STANDARD ZENER DIODES



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.			



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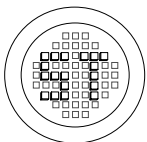


Dated : 09/05/2006

BC Series

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

Type		Zener Voltage			Dynamic Resistance		Standing Dynamic Resistance		Reverse Leakage Current (I_R at V_R)	
		Min. (V)	Max. (V)	I_{ZT} (mA)	Ohm at I_{ZT}	I_{ZT} (mA)	Ohm at I_{ZT}	I_{ZT} (mA)	I_R (μA) Max.	V_R (V)
UZ-2V2BC	A	2.09	2.41	20	120	20	2000	1	120	0.7
	B	2.12	2.3							
	C	2.22	2.41							
UZ-2V4BC	A	2.3	2.64	20	100	20	2000	1	120	1
	B	2.33	2.52							
	C	2.43	2.63							
UZ-2V7BC	A	2.5	2.9	20	100	20	1000	1	100	1
	B	2.54	2.75							
	C	2.69	2.91							
UZ-3V0BC	A	2.8	3.2	20	80	20	1000	1	50	1
	B	2.85	3.07							
	C	3.01	3.22							
UZ-3V3BC	A	3.1	3.5	20	70	20	1000	1	20	1
	B	3.16	3.38							
	C	3.32	3.53							
UZ-3V6BC	A	3.4	3.8	20	60	20	1000	1	10	1
	B	3.47	3.68							
	C	3.62	3.83							
UZ-3V9BC	A	3.7	4.1	20	50	20	1000	1	5	1
	B	3.77	3.98							
	C	3.92	4.14							
UZ-4V3BC	A	4.	4.5	20	40	20	1000	1	5	1
	B	4.05	4.26							
	C	4.2	4.4							
UZ-4V7BC	A	4.4	4.9	20	25	20	900	1	5	1
	B	4.47	4.65							
	C	4.59	4.77							
UZ-5V1BC	A	4.8	5.4	20	20	20	800	1	5	1.5
	B	4.85	5.03							
	C	4.97	5.18							
UZ-5V6BC	A	5.3	6	20	13	20	500	1	5	2.5
	B	5.29	5.52							
	C	5.46	5.7							
UZ-6V2BC	A	5.8	6.6	20	10	20	300	1	5	3
	B	5.81	6.06							
	C	5.99	6.24							
UZ-6V8BC	A	6.4	7.2	20	8	20	150	0.5	2	3.5
	B	6.32	6.59							
	C	6.52	6.79							
UZ-7V5BC	A	7	7.9	20	8	20	120	0.5	0.5	4
	B	6.88	7.19							
	C	7.11	7.41							
UZ-8V2BC	A	7.7	8.7	20	8	20	120	0.5	0.5	5
	B	7.56	7.9							
	C	7.82	8.15							
UZ-9V1BC	A	8.5	9.6	20	8	20	120	0.5	0.5	6
	B	8.33	8.7							
	C	8.61	8.99							
	A	8.89	9.29							
	B									
	C									



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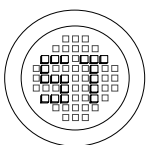
BC Series

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

Type		Zener Voltage			Dynamic Resistance		Standing Dynamic Resistance		Reverse Leakage Current (I_R at V_R)	
		Min. (V)	Max. (V)	I_{ZT} (mA)	Ohm at I_{ZT}	I_{ZT} (mA)	Ohm at I_{ZT}	I_{ZT} (mA)	I_R (μA) Max.	V_R (V)
UZ-10BC	A	9.40	10.9	20	8	20	120	0.5	0.2	7
	B	9.19	9.59							
	C	9.48	9.9							
	D	9.82	10.3							
UZ-11BC	A	10.4	11.6	10	10	10	120	0.5	0.2	8
	B	10.18	10.63							
	C	10.5	10.95							
	D	10.82	11.26							
UZ-12BC	A	11.4	12.6	10	12	10	110	0.5	0.2	9
	B	11.13	11.63							
	C	11.5	11.92							
	D	11.8	12.3							
UZ-13BC	A	12.4	14.1	10	14	10	110	0.5	0.2	10
	B	12.18	12.71							
	C	12.59	13.16							
	D	13.03	13.62							
UZ-15BC	A	13.8	15.6	10	16	10	110	0.5	0.2	11
	B	13.48	14.09							
	C	13.95	14.56							
	D	14.42	15.02							
UZ-16BC	A	15.3	17.1	10	18	10	150	0.5	0.2	12
	B	14.87	15.5							
	C	15.33	15.96							
	D	15.79	16.5							
UZ-18BC	A	16.8	19.1	10	23	10	150	0.5	0.2	13
	B	16.34	17.06							
	C	16.9	17.67							
	D	17.51	18.3							
UZ-20BC	A	18.8	21.6	10	28	10	200	0.5	0.2	15
	B	18.11	18.92							
	C	18.73	19.57							
	D	19.38	20.22							
UZ-22BC	A	20.8	23.3	5	30	5	200	0.5	0.2	17
	B	20.23	21.08							
	C	20.76	21.65							
	D	21.22	22.09							
UZ-24BC	A	22.8	25.6	5	35	5	200	0.5	0.2	19
	B	22.26	23.12							
	C	22.75	23.73							
	D	23.29	24.27							
UZ-27BC	A	25.1	28.9	5	45	5	250	0.5	0.2	21
	B	24.26	25.52							
	C	24.97	26.26							
	D	25.63	26.95							
UZ-30BC	A	28	32	5	55	5	250	0.5	0.2	23
	B	26.99	28.39							
	C	27.7	29.13							
	D	28.36	29.82							
UZ-33BC	A	31	35	5	65	5	250	0.5	0.2	25
	B	29.68	31.22							
	C	30.32	31.88							
	D	30.9	32.5							

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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