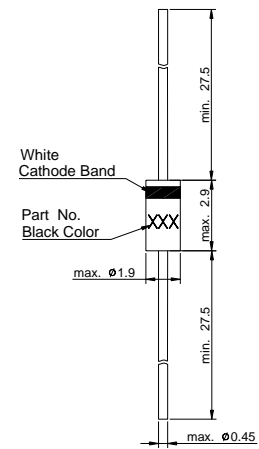


BC Series

GENERAL PURPOSE STANDARD ZENER DIODES

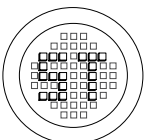


Glass case JEDEC DO-34
Dimensions in mm

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

	Symbol	Value	Unit
Zener Current see Rtable "Characteristics"			
Power Dissipation	P_{tot}	500 ¹⁾	mW
Junction Temperature	T_j	175	°C
Storage Temperature Range	T_s	-65 to +175	°C

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



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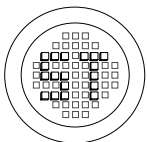
BC Series

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

TYPE		Zener Voltage			Dynamic Resistance		Standing Dynamic Resistance		Reverse Leakage Current (I_R at V_R)	
DO-34		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-2.2BC	A	2.09	2.41	20	120	20	2000	1	120	0.7
	B	2.12	2.30							
UZ-2.4BC	A	2.30	2.64	20	100	20	2000	1	120	1
	B	2.33	2.52							
UZ-2.7BC	A	2.50	2.90	20	100	20	1000	1	100	1
	B	2.54	2.75							
UZ-3.0BC	A	2.80	3.20	20	80	20	1000	1	50	1
	B	2.85	3.07							
UZ-3.3BC	A	3.10	3.50	20	70	20	1000	1	20	1
	B	3.16	3.38							
UZ-3.6BC	A	3.40	3.80	20	60	20	1000	1	10	1
	B	3.47	3.68							
UZ-3.9BC	A	3.70	4.10	20	50	20	1000	1	5	1
	B	3.77	3.98							
UZ-4.3BC	A	4.0	4.50	20	40	20	1000	1	5	1
	B	4.05	4.26							
	C	4.20	4.40							
UZ-4.7BC	A	4.40	4.90	20	25	20	900	1	5	1
	B	4.47	4.65							
	C	4.59	4.77							
UZ-5.1BC	A	4.80	5.40	20	20	20	800	1	5	1.5
	B	4.85	5.03							
	C	4.97	5.18							
UZ-5.6BC	A	5.30	6.0	20	13	20	500	1	5	2.5
	B	5.29	5.52							
	C	5.46	5.70							
UZ-6.2BC	A	5.80	6.60	20	10	20	300	1	5	3
	B	5.81	6.06							
	C	5.99	6.24							
UZ-6.8BC	A	6.40	7.20	20	8	20	150	0.5	2	3.5
	B	6.32	6.59							
	C	6.52	6.79							
UZ-7.5BC	A	7.0	7.90	20	8	20	120	0.5	0.5	4
	B	6.88	7.19							
	C	7.11	7.41							
UZ-8.2BC	A	7.70	8.70	20	8	20	120	0.5	0.5	5
	B	7.56	7.90							
	C	7.82	8.15							

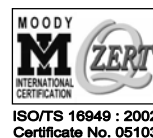
1) Tested with pulse $t_p = 40\text{ms}$

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



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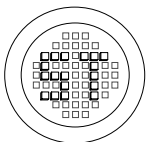
BC Series

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

TYPE		Zener Voltage			Dynamic Resistance		Standing Dynamic Resistance		Reverse Leakage Current (I_R at V_R)	
DO-34		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-9.1BC	A	8.50	9.60	20	8	20	120	0.5	0.5	6
	B	8.33	8.70							
	C	8.61	8.99							
		8.89	9.29							
UZ-10BC	A	9.40	10.9	20	8	20	120	0.5	0.2	7
	B	9.19	9.59							
	C	9.48	9.90							
		9.82	10.3							
UZ-11BC	A	10.40	11.60	10	10	10	120	0.5	0.2	8
	B	10.18	10.63							
	C	10.50	10.95							
		10.82	11.26							
UZ-12BC	A	11.40	12.60	10	12	10	110	0.5	0.2	9
	B	11.13	11.63							
	C	11.50	11.92							
		11.80	12.30							
UZ-13BC	A	12.40	14.10	10	14	10	110	0.5	0.2	10
	B	12.18	12.71							
	C	12.59	13.16							
		13.03	13.62							
UZ-15BC	A	13.80	15.60	10	16	10	110	0.5	0.2	11
	B	13.48	14.09							
	C	13.95	14.56							
		14.42	15.02							
UZ-16BC	A	15.30	17.10	10	18	10	150	0.5	0.2	12
	B	14.87	15.50							
	C	15.33	15.96							
		15.79	16.50							
UZ-18BC	A	16.80	19.10	10	23	10	150	0.5	0.2	13
	B	16.34	17.06							
	C	16.90	17.67							
		17.51	18.30							
UZ-20BC	A	18.80	21.60	10	28	10	200	0.5	0.2	15
	B	18.11	18.92							
	C	18.73	19.57							
	D	19.38	20.22							
	19.88	20.72								
UZ-22BC	A	20.80	23.30	5	30	5	200	0.5	0.2	17
	B	20.23	21.08							
	C	20.76	21.65							
	D	21.22	22.09							
	21.68	22.61								
UZ-24BC	A	22.80	25.60	5	35	5	200	0.5	0.2	19
	B	22.26	23.12							
	C	22.75	23.73							
	D	23.29	24.27							
	23.81	24.81								
UZ-27BC	A	25.10	28.90	5	45	5	250	0.5	0.2	21
	B	24.26	25.52							
	C	24.97	26.26							
	D	25.63	26.95							
	26.29	27.64								

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

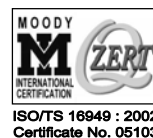
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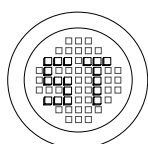
BC Series

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

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-30BC	A	28.00	32.00	5	55	5	250	0.5	0.2	23
	B	26.99	28.39							
	C	27.70	29.13							
	D	28.36	29.82							
UZ-33BC	A	29.02	30.51	5	65	5	250	0.5	0.2	25
	B	31.00	35.00							
	C	29.68	31.22							
	D	30.32	31.88							
		30.90	32.50							
		31.49	33.11							

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

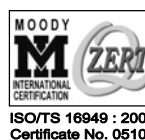
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