

BZX55C2V4 thru BZX55C91

T-11-11

ELECTRICAL CHARACTERISTICS ($T_L = 30^\circ\text{C}$ unless otherwise noted.) ($V_F = 1.3$ Volts Max, $I_F = 100$ mA dc for all types.)

Motorola Type Number	V_{ZT} at I_{ZT} (V)		Max Zener Impedance (Note 3) $Z_{ZT} @ I_{ZT}$ (Ohms) Max	I_{ZT} (mA)	Max Reverse Leakage Current I_R at V_R (μA)		V_R (V)	I_{ZM} (mA) (Note 2)
	Min (Note 1)	Max (Note 1)			T_{amb} 25°C Max	T_{amb} 125°C Max		
BZX55C2V4	2.28	2.56	85	5	50	100	1	155
BZX55C2V7	2.5	2.9	85	5	10	50	1	135
BZX55C3V0	2.8	3.2	85	5	4	40	1	125
BZX55C3V3	3.1	3.5	85	5	2	40	1	115
BZX55C3V6	3.4	3.8	85	5	2	40	1	105
BZX55C3V9	3.7	4.1	85	5	2	40	1	95
BZX55C4V3	4	4.6	75	5	1	20	1	90
BZX55C4V7	4.4	5	60	5	0.5	10	1	85
BZX55C5V1	4.8	5.4	35	5	0.1	2	1	80
BZX55C5V6	5.2	6	25	5	0.1	2	1	70
BZX55C6V2	5.8	6.6	10	5	0.1	2	2	64
BZX55C6V8	6.4	7.2	8	5	0.1	2	3	58
BZX55C7V6	7	7.9	7	5	0.1	2	5	53
BZX55C8V2	7.7	8.7	7	5	0.1	2	6	47
BZX55C9V1	8.5	9.6	10	5	0.1	2	7	43
BZX55C10	9.4	10.6	15	5	0.1	2	7.5	40
BZX55C11	10.4	11.6	20	5	0.1	2	8.5	36
BZX55C12	11.4	12.7	20	5	0.1	2	9	32
BZX55C13	12.4	14.1	26	5	0.1	2	10	29
BZX55C15	13.8	15.6	30	5	0.1	2	11	27
BZX55C16	15.3	17.1	40	5	0.1	2	12	24
BZX55C18	16.8	19.1	50	5	0.1	2	14	21
BZX55C20	18.8	21.1	55	5	0.1	2	15	20
BZX55C22	20.8	23.3	55	5	0.1	2	17	18
BZX55C24	22.8	25.6	80	5	0.1	2	18	16
BZX55C27	25.1	28.9	80	5	0.1	2	20	14
BZX55C30	28	32	80	5	0.1	2	22	13
BZX55C33	31	35	80	5	0.1	2	24	12
BZX55C36	34	38	80	5	0.1	2	27	11
BZX55C39	37	41	90	2.5	0.1	5	28	10
BZX55C43	40	46	90	2.5	0.1	5	32	9.2
BZX55C47	44	50	110	2.5	0.1	5	35	8.5
BZX55C51	48	54	125	2.5	0.1	10	38	7.8
BZX55C56	52	60	135	2.5	0.1	10	42	7
BZX55C62	58	66	150	2.5	0.1	10	47	6.4
BZX55C68	64	72	160	2.5	0.1	10	51	5.9
BZX55C75	70	80	170	2.5	0.1	10	56	5.3
BZX55C82	77	87	200	2.5	0.1	10	62	4.8
BZX55C91	85	96	250	1	0.1	10	69	4.3

NOTE 1. TOLERANCE AND VOLTAGE DESIGNATION

Tolerance designation — The type numbers listed have zener voltage min/max limits as shown. Device tolerance of $\pm 2\%$ are indicated by a "B" instead of a "C". Zener voltage is measured with the device junction in thermal equilibrium at the lead temperature of $30^\circ\text{C} \pm 1^\circ\text{C}$ and $3/8"$ lead length.

NOTE 2.

This data was calculated using nominal voltages. The maximum current handling capability on a worst case basis is limited by the actual zener voltage at the operating point and the power derating curve.

NOTE 3.

Z_{ZT} and Z_{ZK} are measured by dividing the ac voltage drop across the device by the ac current applied. The specified limits are for $I_Z(\text{ac}) = 0.1 I_Z(\text{dc})$ with the ac frequency = 1.0 KHz.

TRANSIENT VOLTAGE SUPPRESSORS AND ZENER DIODES

4-2-34