ZENER DIODES

STANDARD ZENER DIODES

PREFERRED SERIES
PRO-ELECTRON SERIES
CECC APPROVAL

Type	V_{ZT} / I_{ZT}*		r_{ZT} / I_{ZT}*	I_{ZT}*	r_{ZK} / I_{ZK}		α_{VZ}		I_R / V_R T_{amb} 25°C	I_R / V_R T_{amb} 150°C	V_R	I_{ZM}	I_{ZSM}	Package
	min (V)	max (V)	max (Ω)	(mA)	max (Ω)	(mA)	min (10^{-4}/°C)	max (10^{-4}/°C)	max (μA)	max (μA)	(V)	(mA)	(mA)	
500 mW / T_{amb} = 25°C T_j max = 175°C											$V_F \leq 1.5$ V (T_{amb} = 25°C, I_F = 0.2A)			
BZX 55 C 0V8 (1)	0.73	0.83	8	5	600	1								
P BZX 55 C 2V4	2.28	2.56	85	5	600	1	-8	- 6	50	100	1	155	1720	
P • BZX 55 C 2V7 CECCL	2.5	2.9	85	5	600	1	-8	- 6	10	50	1	135	1600	
• BZX 55 C 3V0 CECCL	2.8	3.2	85	5	600	1	-8	- 6	4	40	1	125	1500	
P • BZX 55 C 3V3 CECCL	3.1	3.5	85	5	600	1	-8	- 5	2	40	1	115	1400	
P • BZX 55 C 3V6 CECCL	3.4	3.8	85	5	600	1	-8	- 4	2	40	1	105	1330	
P • BZX 55 C 3V9 CECCL	3.7	4.1	85	5	600	1	-7	- 3	2	40	1	95	1270	
P • BZX 55 C 4V3 CECCL	4.0	4.6	75	5	600	1	-4	- 1	1	20	1	90	1220	
P • BZX 55 C 4V7 CECCL	4.4	5.0	60	5	600	1	-3	1	0.5	10	1	85	1160	
P • BZX 55 C 5V1 CECCL	4.8	5.4	35	5	550	1	-2	5	0.1	2	1	80	1100	
P • BZX 55 C 5V6 CECCL	5.2	6.0	25	5	450	1	-1	6	0.1	2	1	70	1040	
P • BZX 55 C 6V2 CECCL	5.8	6.6	10	5	200	1	0	7	0.1	2	2	64	980	
P • BZX 55 C 6V8 CECCL	6.4	7.2	8	5	150	1	1	8	0.1	2	3	58	900	
P • BZX 55 C 7V5 CECCL	7.0	7.9	7	5	50	1	1	9	0.1	2	5	53	810	
P • BZX 55 C 8V2 CECCL	7.7	8.7	7	5	50	1	1	9	0.1	2	6.2	47	760	
P • BZX 55 C 9V1 CECCL	8.5	9.6	10	5	50	1	2	10	0.1	2	6.8	43	670	
P • BZX 55 C 10 CECCL	9.4	10.6	15	5	70	1	3	11	0.1	2	7.5	40	600	
• BZX 55 C 11 CECCL	10.4	11.6	20	5	70	1	3	11	0.1	2	8.2	36	550	
P • BZX 55 C 12 CECCL	11.4	12.7	20	5	90	1	3	11	0.1	2	9.1	32	500	
• BZX 55 C 13 CECCL	12.4	14.1	26	5	110	1	3	11	0.1	2	10	29	450	
P • BZX 55 C 15 CECCL	13.8	15.6	30	5	110	1	3	11	0.1	2	11	27	380	
• BZX 55 C 16 CECCL	15.3	17.1	40	5	170	1	3	11	0.1	2	12	24	350	
P • BZX 55 C 18 CECCL	16.8	19.1	50	5	170	1	3	11	0.1	2	13	21	300	
P • BZX 55 C 20 CECCL	18.8	21.2	55	5	220	1	3	11	0.1	2	15	20	270	
P • BZX 55 C 22 CECCL	20.8	23.3	55	5	220	1	3	11	0.1	2	16	18	250	DO 35
P • BZX 55 C 24 CECCL	22.8	25.6	80	5	220	1	4	12	0.1	2	18	16	225	
P • BZX 55 C 27 CECCL	25.1	28.9	80	5	220	1	4	12	0.1	2	20	14	200	
• BZX 55 C 30 CECCL	28	32	80	5	220	1	4	12	0.1	2	22	13	190	
P • BZX 55 C 33 CECCL	31	35	80	5	220	1	4	12	0.1	2	24	12	175	
• BZX 55 C 36 CECCL	34	38	80	5	220	1	4	12	0.1	2	27	11	160	
• BZX 55 C 39 CECCL	37	41	90	2.5	500	0.5	4	12	0.1	5	30	10	148	
• BZX 55 C 43 CECCL	40	46	90	2.5	600	0.5	4	12	0.1	5	33	9.2	135	
• BZX 55 C 47 CECCL	44	50	110	2.5	700	0.5	4	12	0.1	5	36	8.5	123	
• BZX 55 C 51 CECCL	48	54	125	2.5	700	0.5	4	12	0.1	10	39	7.8	113	
• BZX 55 C 56 CECCL	52	60	135	2.5	1000	0.5	4	12	0.1	10	43	7.0	104	
• BZX 55 C 62 CECCL	58	66	150	2.5	1000	0.5	4	12	0.1	10	47	6.4	93	
• BZX 55 C 68	64	72	200	2.5	1000	0.5	4	12	0.1	10	51	5.9	87	
P • BZX 55 C 75	70	80	250	2.5	1500	0.5	4	12	0.1	10	56	5.3	79	
P • BZX 55 C 82	77	87	300	2.5	2000	0.5	4	12	0.1	10	62	4.8	72	
• BZX 55 C 91	85	96	450	1	5000	0.1	4	12	0.1	10	68	4.4	65	
BZX 55 C 100	94	106	450	1	5000	0.1	4	12	0.1	10	75	4.0	59	
BZX 55 C 110	104	116	600	1	5000	0.1	4	12	0.1	10	82	3.6	54	
BZX 55 C 120	114	127	800	1	5000	0.1	4	12	0.1	10	91	3.3	49	
BZX 55 C 130	124	141	1000	1	5000	0.1	4	12	0.1	10	100	3.0	45	
BZX 55 C 150	138	156	1200	1	5000	0.1	4	12	0.1	10	110	2.6	39	
BZX 55 C 160	153	171	1500	1	5000	0.1	4	12	0.1	10	120	2.5	37	
BZX 55 C 180	168	191	1800	1	5000	0.1	4	12	0.1	10	130	2.2	33	
BZX 55 C 200	188	212	2000	1	5000	0.1	4	12	0.1	10	150	2.0	30	

*Pulse test 20 ms $\leq t_p \leq$ 50 ms $\delta < 2\%$.

The regulation voltages are defined according to the E 24 series.

P : Preferred voltages.

Tight tolerances on preferred voltages :
BZX 55 B : ± 2%.
BZX 55 A : ± 1%.

• ESA qualified product.

(1) BZX 55 C 0V8 is to be used with forward bias.