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 max (μA)	T_{amb} 150°C max (μA)	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)			(V)	(mA)	(mA)	
1.3 W / T_{amb} = 25°C T_j max = 175°C														$V_F \leq 1$ V (T_{amb} = 25°C, I_F = 0.2 A)
BZX 85 C 2V7 CECCL	2.5	2.9	20	80	400	1	-8	- 5	150	300	1	370	3200	
BZX 85 C 3V0 CECCL	2.8	3.2	20	80	400	1	-8	- 5	100	300	1	340	3000	
P BZX 85 C 3V3 CECCL	3.1	3.5	20	80	400	1	-8	- 5	40	200	1	320	2800	
P BZX 85 C 3V6 CECCL	3.4	3.8	20	70	500	1	-8	- 5	20	50	1	290	2660	
P BZX 85 C 3V9 CECCL	3.7	4.1	15	60	500	1	-7	- 2	10	20	1	280	2540	
P BZX 85 C 4V3 CECCL	4.0	4.6	13	50	500	1	-5	1	3	10	1	250	2440	
P BZX 85 C 4V7 CECCL	4.4	5.0	13	45	500	1	-3	4	3	10	1	215	2320	
P BZX 85 C 5V1 CECCL	4.8	5.4	10	45	500	1	-1	4	1	10	1.5	200	2200	
P BZX 85 C 5V6 CECCL	5.2	6.0	7	45	400	1	0	4.5	1	10	2	190	2080	
P BZX 85 C 6V2 CECCL	5.8	6.6	4	35	300	1	1	5.5	1	10	3	170	1960	
P BZX 85 C 6V8 CECCL	6.4	7.2	3.5	35	300	1	1.5	6	1	10	4	155	1800	
P BZX 85 C 7V5 CECCL	7.0	7.9	3	35	200	0.5	2	6.5	1	10	4.5	140	1620	
P BZX 85 C 8V2 CECCL	7.7	8.7	5	25	200	0.5	3	7	1	10	6.2	130	1520	
P BZX 85 C 9V1 CECCL	8.5	9.6	5	25	200	0.5	3.5	7.5	1	10	6.8	120	1340	
P BZX 85 C 10 CECCL	9.4	10.6	7	25	200	0.5	4	8	0.5	10	7.5	105	1200	
BZX 85 C 11 CECCL	10.4	11.6	8	20	300	0.5	4.5	8	0.5	10	8.2	97	1100	
P BZX 85 C 12 CECCL	11.4	12.7	9	20	350	0.5	4.5	8.5	0.5	10	9.1	88	1000	
BZX 85 C 13 CECCL	12.4	14.1	10	20	400	0.5	5	8.5	0.5	10	10	79	900	
P BZX 85 C 15 CECCL	13.8	15.6	15	15	500	0.5	5.5	9	0.5	10	11	71	760	
P BZX 85 C 16 CECCL	15.3	17.1	15	15	500	0.5	5.5	9	0.5	10	12	66	700	
P BZX 85 C 18 CECCL	16.8	19.1	20	15	500	0.5	6	9	0.5	10	13	62	600	
P BZX 85 C 20 CECCL	18.8	21.2	24	10	600	0.5	6	9	0.5	10	15	56	540	
P BZX 85 C 22 CECCL	20.8	23.3	25	10	600	0.5	6	9.5	0.5	10	16	52	500	DO 41
P BZX 85 C 24 CECCL	22.8	25.6	25	10	600	0.5	6	9.5	0.5	10	18	47	490	
P BZX 85 C 27 CECCL	25.1	28.9	30	8	750	0.25	6	9.5	0.5	10	20	41	400	
P BZX 85 C 30 CECCL	28	32	30	8	1000	0.25	6	9.5	0.5	10	22	36	380	
P BZX 85 C 33 CECCL	31	35	35	8	1000	0.25	6	9.5	0.5	10	24	33	350	
P BZX 85 C 36 CECCL	34	38	40	8	1000	0.25	6	9.5	0.5	10	27	30	320	
P BZX 85 C 39 CECCL	37	41	50	6	1000	0.25	6	9.5	0.5	10	30	28	296	
BZX 85 C 43 CECCL	40	46	50	6	1000	0.25	6	9.5	0.5	10	33	26	270	
BZX 85 C 47 CECCL	44	50	90	4	1500	0.25	6	9.5	0.5	10	36	23	246	
BZX 85 C 51 CECCL	48	54	115	4	1500	0.25	6	9.5	0.5	10	39	21	226	
BZX 85 C 56 CECCL	52	60	120	4	2000	0.25	6	9.5	0.5	10	43	19	208	
P BZX 85 C 62 CECCL	58	66	125	4	2000	0.25	6	9.5	0.5	10	47	16	186	
P BZX 85 C 68	64	72	130	4	2000	0.25	6	9.5	0.5	10	51	15	171	
BZX 85 C 75	70	80	135	4	2000	0.25	6	9.5	0.5	10	56	14	161	
BZX 85 C 82	77	87	200	2.7	3000	0.25	7	12	0.5	10	62	12	141	
BZX 85 C 91	85	96	250	2.7	3000	0.25	7	12	0.5	10	68	10	127	
P BZX 85 C 100	94	106	350	2.7	3000	0.25	7	12	0.5	10	75	9.4	116	
BZX 85 C 110	104	116	450	2.7	4000	0.25	7	12	0.5	10	82	8.6	105	
BZX 85 C 120	114	127	550	2	4500	0.25	7	12	0.5	10	91	7.8	96	
BZX 85 C 130	124	141	700	2	5000	0.25	7	12	0.5	10	100	7.0	89	
BZX 85 C 150	138	156	1000	2	6000	0.25	7	12	0.5	10	110	6.4	77	
BZX 85 C 160	153	171	1100	1.5	6500	0.25	7	12	0.5	10	120	5.8	72	
BZX 85 C 180	168	191	1200	1.5	7000	0.25	7	12	0.5	10	130	5.2	64	
BZX 85 C 200	180	212	1500	1.5	8000	0.25	7	12	0.5	10	150	4.7	58	

* 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 85 B : ± 2%.
BZX 85 A : ± 1%.

DESupport