

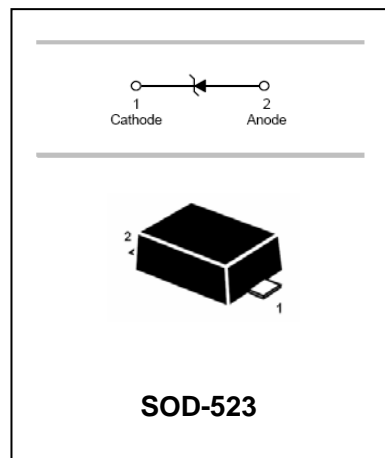


Zener Diode

BZX585 Series

FEATURES

- Total Power Dissipation: Max. 300mW
- Two Tolerance Series: $\pm 2\%$ and $\pm 5\%$
- Working Voltage Range: Nom. 2.4 to 75V



APPLICATIONS

- Zener diodes.

ORDERING INFORMATION

Type No.	Marking	Package Code
BZX585B/CXX	see table on page 2	SOD-523

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Total power dissipation	P_{tot}	300	mW
Continuous Forward Current	I_F	200	mA
Forward Voltage @ $I_F = 10\text{mA}$	V_F	0.9	V
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

BZX 585 B or C XXX	Marking		Zener voltage range(V) @ $I_{ZT}=5\text{mA}$				Differential resistance $R_{dif} (\Omega)$				Diode Cap. Cd (pF) @ $f = 1\text{MHz};$ $VR = 0\text{V}$	Non-repetitive peak reverse current $I_{ZSM} (A)$ @ $t_p = 100 \text{ s}$
	$\pm 2\%$	$\pm 5\%$	$\pm 2\%(B)$		$\pm 5\%(C)$		$I_{ZT}=1\text{mA}$		$I_{ZK}=5\text{mA}$			
			Min	Max	Min	Max	Typ.	Max	Typ.	Max.		
2V4	C1	F1	2.35	2.45	2.28	2.52	275	400	70	100	450	6.0
2V7	C2	F2	2.65	2.75	2.57	2.84	300	450	75	100	440	6.0
3V0	C3	F3	2.94	3.06	2.85	3.15	325	500	80	95	425	6.0
3V3	C4	F4	3.23	3.37	3.14	3.47	350	500	85	95	410	6.0



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BZX 585 B or C XXX	Marking		Zener voltage range(V) @I _{ZT} =5mA				Differential resistance R _{dif} (Ω)				Diode Cap. Cd (pF) @ f = 1MHz; VR = 0V	Non-repetitive peak reverse current I _{ZSM} (A) @ tp = 100 s
	± 2%	± 5%	±2%(B)		±5%(C)		I _{ZT} =1mA		I _{ZK} =5mA			
			Min	Max	Min	Max	Typ.	Max	Typ.	Max.		
3V6	C5	F5	3.53	3.67	3.42	3.78	375	500	85	90	390	6.0
3V9	C6	F6	3.82	3.98	3.71	4.10	400	500	85	90	370	6.0
4V3	C7	F7	4.21	4.39	4.09	4.52	410	600	80	90	350	6.0
4V7	C8	F8	4.61	4.79	4.47	4.94	425	500	50	80	325	6.0
5V1	C9	F9	5.00	5.20	4.85	5.36	400	480	40	60	300	6.0
5V6	C0	F0	5.49	5.71	5.32	5.88	80	400	15	40	275	6.0
6V2	E1	H1	6.08	6.32	5.89	6.51	40	150	6	10	250	6.0
6V8	E2	H2	6.66	6.94	6.46	7.14	30	80	6	15	215	6.0
7V5	E3	H3	7.35	7.65	7.13	7.88	15	80	2	10	170	4.0
8V2	E4	H4	8.04	8.36	7.79	8.61	20	80	2	10	150	4.0
9V1	E5	H5	8.92	9.28	8.65	9.56	20	100	2	10	120	3.0
10	E6	H6	9.80	10.20	9.50	10.50	20	150	2	10	110	3.0
11	E7	H7	10.78	11.22	10.45	11.55	25	150	2	10	110	2.5
12	E8	H8	11.6	12.24	11.40	12.60	25	150	2	10	105	2.5
13	E9	H9	12.74	13.26	12.35	13.65	25	170	2	10	105	2.5
15	E0	H0	14.7	15.30	14.25	15.76	25	200	3	15	100	2.0
16	EA	HA	15.68	16.32	15.20	16.80	50	200	10	40	90	1.5
18	EB	HB	17.64	18.36	17.10	18.90	50	225	10	45	80	1.5
20	EC	HC	19.60	20.40	19.00	21.00	60	225	15	55	70	1.5
22	ED	HD	21.56	22.44	20.90	23.10	60	250	20	55	60	1.25
24	EE	HE	23.52	24.48	22.80	25.20	60	250	25	70	55	1.25
27	EF	HF	26.46	27.54	25.65	28.35	65	300	25	80	50	1.0
30	EG	HG	29.40	30.60	28.50	31.50	70	300	30	80	50	1.0
33	EH	HH	32.34	33.66	31.35	34.65	75	325	35	80	45	0.9
36	EK	HK	35.28	36.72	34.20	37.80	80	350	35	90	45	0.8
39	EL	HL	38.22	39.78	37.05	40.95	80	350	40	130	45	0.7
43	EM	HM	42.14	43.86	40.85	45.15	85	375	45	150	40	0.6
47	EN	HN	46.06	47.94	44.65	49.35	85	375	50	170	40	0.5
51	EP	HP	49.98	52.02	48.45	53.55	90	400	60	180	40	0.4
56	ER	HR	54.88	57.12	53.20	58.80	100	425	70	200	40	0.3
62	ES	HS	60.76	63.24	58.90	65.10	120	450	80	215	35	0.3
68	ET	HT	66.64	69.36	64.60	71.40	150	475	90	240	35	0.25
75	EU	HU	73.50	76.50	71.25	78.75	170	500	95	255	35	0.2

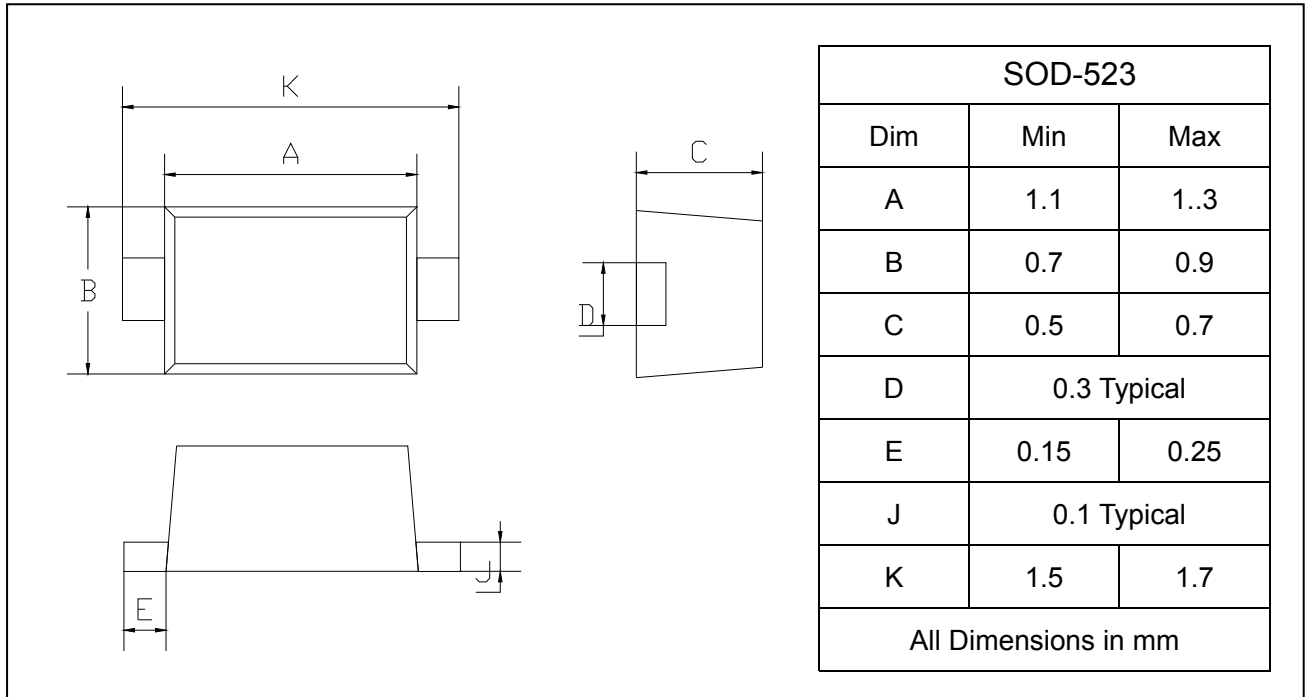
Zener Diode

BZX585 Series

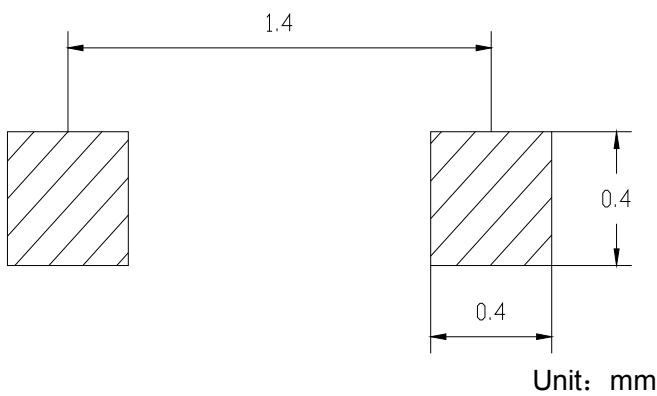
PACKAGE OUTLINE

Plastic surface mounted package

SOD-523



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
BZX585B/CXX	SOD-523	3000/Tape&Reel