

ZENER DIODES

BZX55CxxS Series

FEATURES

- Total power dissipation: max. 500mW (DO-35 package)
- Designed for BZX55C
- Tolerance series: $\pm 5\%$

CHARACTERISTICS

Wafer Size	5 Inch
Chip Size	0.32mm \times 0.32mm (107,424pcs / wafer)
VZ Rank (Tol.= $\pm 5\%$)	BZX55C2V0S~BZX55C75VS

ABSOLUTE MAXIMUM RATINGS

(Ta = 25°C)

Item	Symbol	Maximum Ratings	Unit
Power Dissipation *1	Pd	500	mW
Junction Temperature *1	Tj	175	°C
Storage Temperature	Tstg	-65 to +175	°C

*1 Package=DO-35

ELECTRICAL CHARACTERISTICS

(Ta = 25°C)

Item	Symbol	Conditions	Min.	Max.	Unit
Forward Voltage	VF	IF=100mA	-	1000	mV

ZENER DIODES**BZX55CxxS Series****ELECTRICAL CHARACTERISTICS**

(Ta=25°C)

Vz Rank	Vz(V)			Izt	Zzt(ohm)	Zzk(ohm)		IR (uA)	
	Min.	Ctr.	Max.	Izt(mA)	Max.	Max.	Iz (mA)	Max.	VR(V)
BZX55C2V0S	1.9	2.0	2.1	5	85	600	1	100	1
BZX55C2V2S	2.09	2.2	2.31	5	85	600	1	75	1
BZX55C2V4S	2.28	2.42	2.56	5	85	600	1	50	1
BZX55C2V7S	2.5	2.7	2.9	5	85	600	1	10	1
BZX55C3V0S	2.8	3	3.2	5	85	600	1	4	1
BZX55C3V3S	3.1	3.3	3.5	5	85	600	1	2	1
BZX55C3V6S	3.4	3.6	3.8	5	85	600	1	2	1
BZX55C3V9S	3.7	3.9	4.1	5	85	600	1	2	1
BZX55C4V3S	4	4.3	4.6	5	80	600	1	1	1
BZX55C4V7S	4.4	4.7	5	5	70	600	1	0.5	1
BZX55C5V1S	4.8	5.1	5.4	5	50	550	1	0.1	1
BZX55C5V6S	5.2	5.6	6	5	30	450	1	0.1	1
BZX55C6V2S	5.8	6.2	6.6	5	10	200	1	0.1	2
BZX55C6V8S	6.4	6.8	7.2	5	8	150	1	0.1	3
BZX55C7V5S	7	7.45	7.9	5	7	50	1	0.1	5
BZX55C8V2S	7.7	8.2	8.7	5	7	50	1	0.1	6.2
BZX55C9V1S	8.5	9.05	9.6	5	10	50	1	0.1	6.8
BZX55C10VS	9.4	10	10.6	5	15	70	1	0.1	7.5
BZX55C11VS	10.4	11	11.6	5	20	70	1	0.1	8.3
BZX55C12VS	11.4	12.05	12.7	5	20	90	1	0.1	9
BZX55C13VS	12.4	13.25	14.1	5	26	110	1	0.1	9.8
BZX55C15VS	13.8	14.7	15.6	5	30	110	1	0.1	11.3
BZX55C16VS	15.3	16.2	17.1	5	40	170	1	0.1	12
BZX55C18VS	16.8	17.95	19.1	5	50	170	1	0.1	13.5
BZX55C20VS	18.8	20	21.2	5	55	220	1	0.1	15
BZX55C22VS	20.8	22.05	23.3	5	55	220	1	0.1	16.5
BZX55C24VS	22.8	24.2	25.6	5	80	220	1	0.1	18
BZX55C27VS	25.1	27	28.9	5	80	220	1	0.1	20.3
BZX55C30VS	28	30	32	5	80	220	1	0.1	22.3
BZX55C33VS	31	33	35	5	80	220	1	0.1	24.8
BZX55C36VS	34	36	38	5	80	220	1	0.1	27
BZX55C39VS	37	39	41	2.5	90	500	0.5	0.1	29.3
BZX55C43VS	40	43	46	2.5	90	600	0.5	0.1	32.3
BZX55C47VS	44	47	50	2.5	110	700	0.5	0.1	35.3
BZX55C51VS	48	51	54	2.5	125	700	0.5	0.1	38.3
BZX55C56VS	52	56	60	2.5	135	1000	0.5	0.1	42
BZX55C62VS	58	62	66	2.5	150	1000	0.5	0.1	46.5
BZX55C68VS	64	68	72	2.5	200	1000	0.5	0.1	51
BZX55C75VS	70	74.5	79	2.5	250	1500	0.5	0.1	56.3