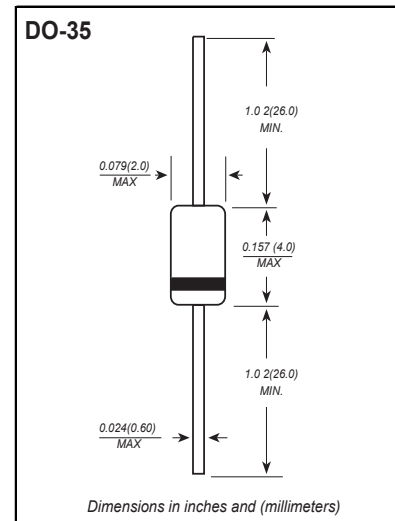


## 500mW Zener Diode

### BZX55C2V4 - BZX55C75

#### Features

- Very Sharp Reverse Characteristic
- Low Reverse Current Level
- Very High Stability
- Low Noise



#### Absolute Maximum Ratings $T_a = 25$

Parameter	Symbol	Rating	Unit
Forward Voltage $I_F=200\text{mA}$	$V_F$	1.5	V
Zener Current	$I_Z$	$P_D/V_Z$	mA
Power Dissipation	$P_D$	500	mW
Thermal Resistance, Junction to Ambient Air	$R_{JA}$	300	K/W
Storage Temperature Range	$T_{STG}$	-65 to +175	
Operating Junction Temperature	$T_J$	175	

**BZX55C2V4 - BZX55C75**

Electrical Characteristics Ta = 25

TypeNumber	Nominal Zener Voltage		Zener Voltage Range	Zener Impedance	Zener Impedance		Leakage Current @ VR			Temperature Coefficient
	Vz @ IzT		Vz @ IzT	ZzT @ IzT	ZzT @ IzK		IR @ T=25	IR @ T=150	VR	
	(V)	(mA)	(V)	( )	( )	(mA)	( $\mu$ A)	( $\mu$ A)	(V)	(%/K)
BZX55C2V4	2.4	5.0	2.28 to 2.56	< 85	< 600	1.0	< 50	< 100	1.0	-0.09 to -0.06
BZX55C2V7	2.7	5.0	2.5 to 2.9	< 85	< 600	1.0	< 10	< 50	1.0	-0.09 to -0.06
BZX55C3V0	3.0	5.0	2.8 to 3.2	< 85	< 600	1.0	< 4.0	< 40	1.0	-0.08 to -0.05
BZX55C3V3	3.3	5.0	3.1 to 3.5	< 85	< 600	1.0	< 2.0	< 40	1.0	-0.08 to -0.05
BZX55C3V6	3.6	5.0	3.4 to 3.8	< 85	< 600	1.0	< 2.0	< 40	1.0	-0.08 to -0.05
BZX55C3V9	3.9	5.0	3.7 to 4.1	< 85	< 600	1.0	< 2.0	< 40	1.0	-0.08 to -0.05
BZX55C4V3	4.3	5.0	4.0 to 4.6	< 75	< 600	1.0	< 1.0	< 20	1.0	-0.06 to -0.03
BZX55C4V7	4.7	5.0	4.4 to 5.0	< 60	< 600	1.0	< 0.5	< 10	1.0	-0.05 to +0.02
BZX55C5V1	5.1	5.0	4.8 to 5.4	< 35	< 550	1.0	< 0.1	< 2.0	1.0	0.02 to +0.02
BZX55C5V6	5.6	5.0	5.2 to 6.0	< 25	< 450	1.0	< 0.1	< 2.0	1.0	-0.05 to +0.05
BZX55C6V2	6.2	5.0	5.8 to 6.6	< 10	< 200	1.0	< 0.1	< 2.0	2.0	0.03 to 0.06
BZX55C6V8	6.8	5.0	6.4 to 7.2	< 8.0	< 150	1.0	< 0.1	< 2.0	3.0	0.03 to 0.07
BZX55C7V5	7.5	5.0	7.0 to 7.9	< 7.0	< 50	1.0	< 0.1	< 2.0	5.0	0.03 to 0.07
BZX55C8V2	8.2	5.0	7.7 to 8.7	< 7.0	< 50	1.0	< 0.1	< 2.0	6.2	0.03 to 0.08
BZX55C9V1	9.1	5.0	8.5 to 9.6	< 10	< 50	1.0	< 0.1	< 2.0	6.8	0.03 to 0.09
BZX55C10	10	5.0	9.4 to 10.6	< 15	< 70	1.0	< 0.1	< 2.0	7.5	0.03 to 0.10
BZX55C11	11	5.0	10.4 to 11.6	< 20	< 70	1.0	< 0.1	< 2.0	8.2	0.03 to 0.11
BZX55C12	12	5.0	11.4 to 12.7	< 20	< 90	1.0	< 0.1	< 2.0	9.1	0.03 to 0.11
BZX55C13	13	5.0	12.4 to 14.1	< 26	< 110	1.0	< 0.1	< 2.0	10	0.03 to 0.11
BZX55C15	15	5.0	13.8 to 15.6	< 30	< 110	1.0	< 0.1	< 2.0	11	0.03 to 0.11
BZX55C16	16	5.0	15.3 to 17.1	< 40	< 170	1.0	< 0.1	< 2.0	12	0.03 to 0.11
BZX55C18	18	5.0	16.8 to 19.1	< 50	< 170	1.0	< 0.1	< 2.0	13	0.03 to 0.11
BZX55C20	20	5.0	18.8 to 21.2	< 55	< 220	1.0	< 0.1	< 2.0	15	0.03 to 0.11
BZX55C22	22	5.0	20.8 to 23.3	< 55	< 220	1.0	< 0.1	< 2.0	16	0.04 to 0.12
BZX55C24	24	5.0	22.8 to 25.6	< 80	< 220	1.0	< 0.1	< 2.0	18	0.04 to 0.12
BZX55C27	27	5	25.1 to 28.9	< 80	< 220	1	< 0.1	< 2.0	20	0.04 to 0.12
BZX55C30	30	5.0	28 to 32	< 80	< 220	1.0	< 0.1	< 2.0	22	0.04 to 0.12
BZX55C33	33	5	31 to 35	< 80	< 220	1	< 0.1	< 2.0	24	0.04 to 0.12
BZX55C36	36	5.0	34 to 38	< 80	< 220	1.0	< 0.1	< 2.0	27	0.04 to 0.12
BZX55C39	39	2.5	37 to 41	< 90	< 500	0.5	< 0.1	< 5.0	30	0.04 to 0.12
BZX55C43	43	2.5	40 to 46	< 90	< 600	0.5	< 0.1	< 5.0	33	0.04 to 0.12
BZX55C47	47	2.5	44 to 50	< 110	< 700	0.5	< 0.1	< 5	36	0.04 to 0.12
BZX55C51	51	2.5	48 to 54	< 125	< 700	0.5	< 0.1	< 10	39	0.04 to 0.12
BZX55C56	56	2.5	52 to 60	< 135	< 1000	0.5	< 0.1	< 10	43	0.04 to 0.12
BZX55C62	62	2.5	58 to 66	< 150	< 1000	0.5	< 0.1	< 10	47	0.04 to 0.12
BZX55C68	68	2.5	64 to 72	< 200	< 1000	0.5	< 0.1	< 10	51	0.04 to 0.12
BZX55C75	75	2.5	70 to 79	< 250	< 1500	0.5	< 0.1	< 10	56	0.04 to 0.12