

500mW 5% ZENER DIODE

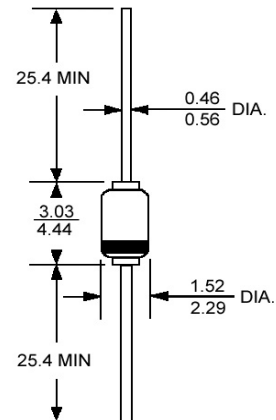
Absolute Maximum Ratings (Ta= 25 °C)

Items	Symbol	Ratings	Units
Power Dissipation	P	500	mW
Junction Temp.	Tj	-65 to 175	°C
Storage Temp.	Tstg	-65 to 175	°C
Thermal Resistance Junction to Ambient	RthA	0.3	K/mW
Forward Voltage @IF= 100mA	VF	1.0	V
VZ Tolerance		5	%

Mechanical Characteristics

Items	Materials
Package	DO-35
Case	Hermetically sealed glass
Chip	Passivated

DO-35



Dimensions in millimeters

Electrical Characteristics (Ta= 25°C)

Type No.	Zener Voltage	Test Curr.	Max Zener Impedance		Max Reverse Leakage		Temp. Coeff.	Max
	Vz @ Izt (V)	Izt (mA)	Zzt @ Izt (ohms)	Zzk @ Izk= 1mA (ohms)	IR (uA)	VR (V)	dvz (%/°C)	IzM (mA)
*BZX55C2V7	2.7	5	85	600	10	1.0	-0.070	135
*BZX55C3V0	3.0	5	85	600	4	1.0	-0.070	125
*BZX55C3V3	3.3	5	85	600	2	1.0	-0.065	115
*BZX55C3V6	3.6	5	85	600	2	1.0	-0.060	105
*BZX55C3V9	3.9	5	85	600	2	1.0	-0.050	95
*BZX55C4V3	4.3	5	75	600	1	1.0	-0.025	90
BZX55C4V7	4.7	5	60	600	0.5	1.0	-0.010	85
BZX55C5V1	5.1	5	35	550	0.1	1.0	+0.015	80
BZX55C5V7	5.6	5	25	450	0.1	1.0	+0.025	70
BZX55C6V2	6.2	5	10	200	0.1	2.0	+0.035	64
BZX55C6V8	6.8	5	8	150	0.1	3.0	+0.045	58
BZX55C7V5	7.5	5	7	50	0.1	5.0	+0.050	53
BZX55C8V2	8.2	5	7	50	0.1	6.0	+0.050	47
BZX55C9V1	9.1	5	10	50	0.1	7.0	+0.060	43
BZX55C10	10	5	15	70	0.1	7.5	+0.070	40
BZX55C11	11	5	20	70	0.1	8.5	+0.070	36
BZX55C12	12	5	20	90	0.1	9.0	+0.070	32
BZX55C13	13	5	26	110	0.1	10	+0.070	29
BZX55C15	15	5	30	110	0.1	11	+0.070	27

*Call for availability on low voltage values below 4.7V.

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	Vz @ Izt (V)	Izt (mA)	Zzt @ Izt (ohms)	Zzk @ Izk= 1mA (ohms)	IR (uA)	VR (V)	dvz (%/°C)	IzM (mA)
BZX55C16	16	5	40	170	0.1	12	+0.070	24
BZX55C18	18	5	50	170	0.1	14	+0.070	21
BZX55C20	20	5	55	220	0.1	15	+0.070	20
BZX55C22	22	5	55	220	0.1	17	+0.070	18
BZX55C24	24	5	80	220	0.1	18	+0.080	16
BZX55C27	27	5	80	220	0.1	20	+0.080	14
BZX55C30	30	5	80	220	0.1	22	+0.080	13
BZX55C33	33	5	80	220	0.1	24	+0.080	12
BZX55C36	36	5	80	220	0.1	27	+0.080	11
BZX55C39	39	2.5	90	500	0.1	30	+0.080	10
BZX55C43	43	2.5	90	600	0.1	33	+0.080	9.2
BZX55C47	47	2.5	110	700	0.1	36	+0.080	8.5