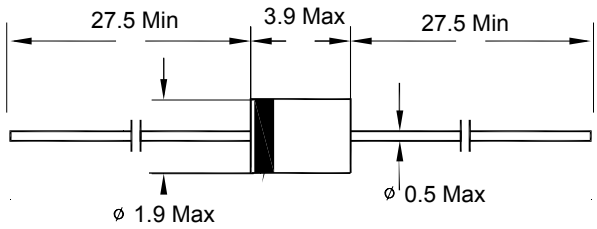
FEATURES

- Very sharp reverse characteristic
- Low reverse current level
- Very high stability,Low noise
- Standard zener voltage tolerance is ±5%. Replace suffix "C". with "B" for ±2%, with "A " for ±1%.



DO-35 Dimensions in millimeters

MECHANICAL DATA

- Case:DO-35, glass case
- Terminals : solderable per MIL-STD-202, method 208
- Polarity: cathode band
- Approx. weight: 0.13 grams

MAXIMU MRATINGS (T_A = 25°C unless otherwise noted)

Characteristic	Symbol	Value	Unit
Power Dissipation at Tamb=50 °C (Note 1)	P_{tot}	500(1)	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	300	°C/W
Forward voltage at I_F = 100 mA	V_F	1	v
Junction Temperature	T_j	175	°C
Storage Temperature Range	T_{STG}	-55 to + 175	°C

Note: (1) Valid provided that electrodes at a distance of 10mm from case are kept at ambient temperature.

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Type	Zener Voltage Range			Dynamic Resistance			Reverse Leakage Current			Temp. Coefficient of Zener Voltage
	V_{znom} V	I_{ZT} mA	V_{ZT} V	r_{ZJT} Max.(Ω)	r_{ZJK} Max.(Ω)	I_{ZK} mA	Ta=25°C Max.(μ A)	Ta=125°C Max.(μ A)	I_R at V_R V	TK_{VZ} %/K
BZX55C2V0	2	5	1.8...2.15	85	600	1	100	200	1	-0.09...-0.06
BZX55C2V2	2.2	5	2.08...2.33	85	600	1	75	160	1	-0.09...-0.06
BZX55C2V4	2.4	5	2.28...2.56	85	600	1	50	100	1	-0.09...-0.06
BZX55C2V7	2.7	5	2.5...2.9	85	600	1	10	50	1	-0.09...-0.06
BZX55C3V0	3	5	2.8...3.2	85	600	1	4	40	1	-0.08...-0.05
BZX55C3V3	3.3	5	3.1...3.5	85	600	1	2	40	1	-0.08...-0.05
BZX55C3V6	3.6	5	3.4...3.8	85	600	1	2	40	1	-0.08...-0.05
BZX55C3V9	3.9	5	3.7...4.1	85	600	1	2	40	1	-0.08...-0.05
BZX55C4V3	4.3	5	4...4.6	75	600	1	1	20	1	-0.06...-0.03
BZX55C4V7	4.7	5	4.4...5	60	600	1	0.5	10	1	-0.05...+0.02
BZX55C5V1	5.1	5	4.8...5.4	35	550	1	0.1	2	1	-0.02...+0.02
BZX55C5V6	5.6	5	5.2...6	25	450	1	0.1	2	1	-0.05...+0.05
BZX55C6V2	6.2	5	5.8...6.6	10	200	1	0.1	2	2	0.03...0.06
BZX55C6V8	6.8	5	6.4...7.2	8	150	1	0.1	2	3	0.03...0.07
BZX55C7V5	7.5	5	7...7.9	7	50	1	0.1	2	5	0.03...0.07
BZX55C8V2	8.2	5	7.7...8.7	7	50	1	0.1	2	6.2	0.03...0.08
BZX55C9V1	9.1	5	8.5...9.6	10	50	1	0.1	2	6.8	0.03...0.09
BZX55C10	10	5	9.4...10.6	15	70	1	0.1	2	7.5	0.03...0.1
BZX55C11	11	5	10.4...11.6	20	70	1	0.1	2	8.2	0.03...0.11
BZX55C12	12	5	11.4...12.7	20	90	1	0.1	2	9.1	0.03...0.11
BZX55C13	13	5	12.4...14.1	26	110	1	0.1	2	10	0.03...0.11
BZX55C15	15	5	13.8...15.6	30	110	1	0.1	2	11	0.03...0.11
BZX55C16	16	5	15.3...17.1	40	170	1	0.1	2	12	0.03...0.11
BZX55C18	18	5	16.8...19.1	50	170	1	0.1	2	13	0.03...0.11
BZX55C20	20	5	18.8...21.2	55	220	1	0.1	2	15	0.03...0.11
BZX55C22	22	5	20.8...23.3	55	220	1	0.1	2	16	0.04...0.12
BZX55C24	24	5	22.8...25.6	80	220	1	0.1	2	18	0.04...0.12
BZX55C27	27	5	25.1...28.9	80	220	1	0.1	2	20	0.04...0.12
BZX55C30	30	5	28...32	80	220	1	0.1	2	22	0.04...0.12
BZX55C33	33	5	31...35	80	220	1	0.1	2	24	0.04...0.12
BZX55C36	36	5	34...38	80	220	1	0.1	2	27	0.04...0.12
BZX55C39	39	2.5	37...41	90	500	0.5	0.1	5	30	0.04...0.12
BZX55C43	43	2.5	40...46	90	500	0.5	0.1	5	33	0.04...0.12
BZX55C47	47	2.5	44...50	110	600	0.5	0.1	5	36	0.04...0.12
BZX55C51	51	2.5	48...54	125	700	0.5	0.1	10	39	0.04...0.12
BZX55C56	56	2.5	52...60	135	700	0.5	0.1	10	43	0.04...0.12
BZX55C62	62	2.5	58...66	150	1000	0.5	0.1	10	47	0.04...0.12
BZX55C68	68	2.5	64...72	200	1000	0.5	0.1	10	51	0.04...0.12
BZX55C75	75	2.5	70...79	250	1000	0.5	0.1	10	56	0.04...0.12
BZX55C82	82	2.5	77...87	300	1500	0.25	0.1	10	62	0.05...0.12
BZX55C91	91	1	85...96	450	2000	0.1	0.1	10	68	0.05...0.12
BZX55C100	100	1	94...106	450	5000	0.1	0.1	10	75	0.05...0.12

Note: Tested with pulses t= 20 ms.

Typical Characteristics

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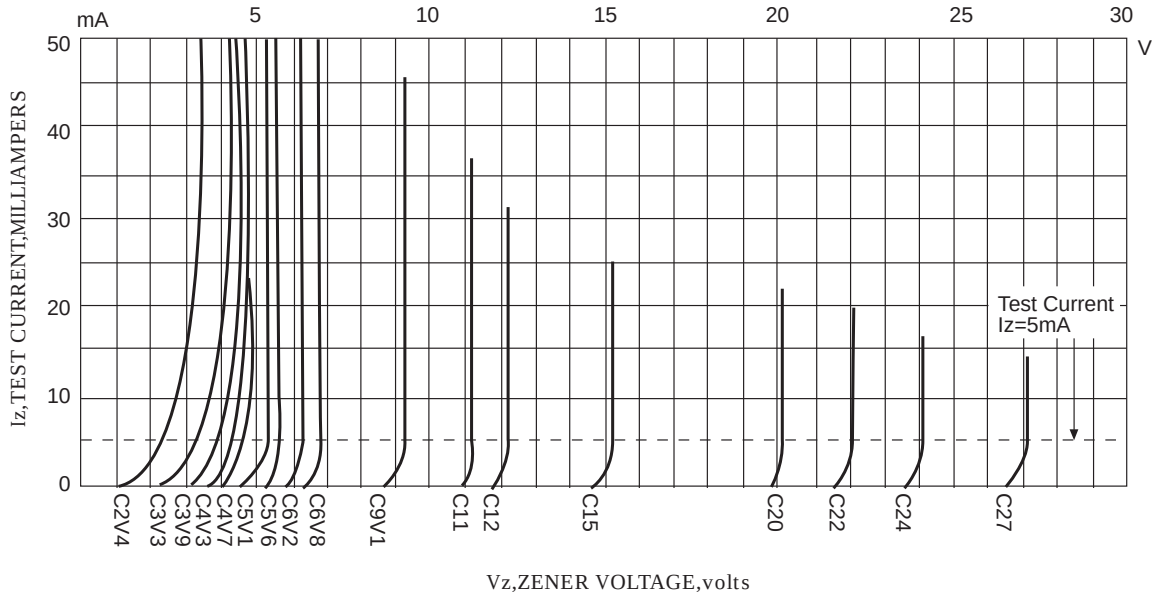

POWER ,TEMPERATURE DERATING CURVE