DESCRIPTION

The BZV55C2V0~BZV55C75V are available in LL-34 package.

MECHANICAL DATA

- Case: LL-34

ORDERING INFORMATION

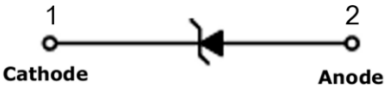
Package Type	Part Number	
LL-34	BZV55C2V0	BZV55C13V
	BZV55C2V2	BZV55C15V
	BZV55C2V4	BZV55C16V
	BZV55C2V7	BZV55C18V
	BZV55C3V0	BZV55C20V
	BZV55C3V3	BZV55C22V
	BZV55C3V6	BZV55C24V
	BZV55C3V9	BZV55C27V
	BZV55C4V3	BZV55C30V
	BZV55C4V7	BZV55C33V
	BZV55C5V1	BZV55C36V
	BZV55C5V6	BZV55C39V
	BZV55C6V2	BZV55C43V
	BZV55C6V8	BZV55C47V
	BZV55C7V5	BZV55C51V
	BZV55C8V2	BZV55C56V
	BZV55C9V1	BZV55C62V
	BZV55C10V	BZV55C68V
	BZV55C11V	BZV55C75V
	BZV55C12V	
Note	SPQ: 2,500pcs/R	
AiT provides all RoHS Compliant Products		

FEATURE

- Zener Voltage Range 2 to 75 Volts
- LL-34 (Mini-MELF) Package
- Surface Device Type Mounting
- Hermetically Sealed Glass
- Compression Bonded Construction
- All External Surfaces Are Corrosion Resistant and Terminals Are Readily Solderable
- RoHS Compliant
- Matte Tin (Sn) Terminal Finish
- Color band Indicates Negative Polarity

PIN DESCRIPTION

LL-34



PIN#	DESCRIPTION
1	CATHODE
2	ANODE

ABSOLUTE MAXIMUM RATINGS

T_a = 25°C, unless otherwise specified

P_D, Power Dissipation (1)	500mW
V_F, Forward Voltage at I_F = 200mA (2)	1.2V
T_{STG}, Storage Temperature Range	-65℃ ~ + 175℃
T_J, Operating Temperature Range	+175℃

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ELECTRICAL CHARACTERISTICS

T_A = 25°C, unless otherwise specified

PART NUMBER	V_Z@I_{ZT}	@I_{ZT}	Z_{ZT}@I_{ZT}	IR @ VR	VR
	Nom(V)	mA	Max. (Ω)	Max (mA)	(Volts)
BZV55C2V0	2	5	100	120	0.5
BZV55C2V2	2.2	5	100	120	0.7
BZV55C2V4	2.4	5	100	120	1
BZV55C2V7	2.7	5	110	100	1
BZV55C3V0	3	5	120	50	1
BZV55C3V3	3.3	5	120	20	1
BZV55C3V6	3.6	5	100	10	1
BZV55C3V9	3.9	5	100	5	1
BZV55C4V3	4.3	5	100	5	1
BZV55C4V7	4.7	5	80	5	1
BZV55C5V1	5.1	5	80	5	1.5
BZV55C5V6	5.6	5	60	5	2.5
BZV55C6V2	6.2	5	60	5	3
BZV55C6V8	6.8	5	20	2	3.5
BZV55C7V5	7.5	5	20	0.5	4

PART NUMBER	V_Z@I_{ZT}	@I_{ZT}	Z_{ZT}@I_{ZT}	IR @ VR	VR
	Nom(V)	mA	Max. (Ω)	Max (mA)	(Volts)
BZV55C8V2	8.2	5	20	0.5	5
BZV55C9V1	9.1	5	25	0.5	6
BZV55C10V	10	5	30	0.2	7
BZV55C11V	11	5	30	0.2	8
BZV55C12V	12	5	30	0.2	9
BZV55C13V	13	5	35	0.2	10
BZV55C15V	15	5	40	0.2	11
BZV55C16V	16	5	40	0.2	12
BZV55C18V	18	5	45	0.2	13
BZV55C20V	20	5	45	0.2	15
BZV55C22V	22	5	30	0.2	17
BZV55C24V	24	5	35	0.2	19
BZV55C27V	27	2	45	0.2	21
BZV55C30V	30	2	55	0.2	23
BZV55C33V	33	2	65	0.2	25
BZV55C36V	36	2	75	0.2	27
BZV55C39V	39	2	85	0.2	30
BZV55C43V	43	2	90	0.2	33
BZV55C47V	47	2	90	0.2	36
BZV55C51V	51	2	110	0.2	39
BZV55C56V	56	2	110	0.2	43
BZV55C62V	62	2	201	0.2	47
BZV55C68V	68	2	230	0.2	51
BZV55C75V	75	2	240	0.2	56

1.The listed type numbers show the minimum and maximum zener voltage limits, with a standard tolerance of ±5% on the nominal zener voltage.

2. The zener impedance is derived from the 60Hz AC voltage generated when an AC current with an RMS value equal to 10% of the DC zener current (IZT or IZK) is superimposed on IZT or IZK.

TYPICAL PERFORMANCE CHARACTERISTICS

Fig 1. Power Dissipation vs. Ambient Temperature

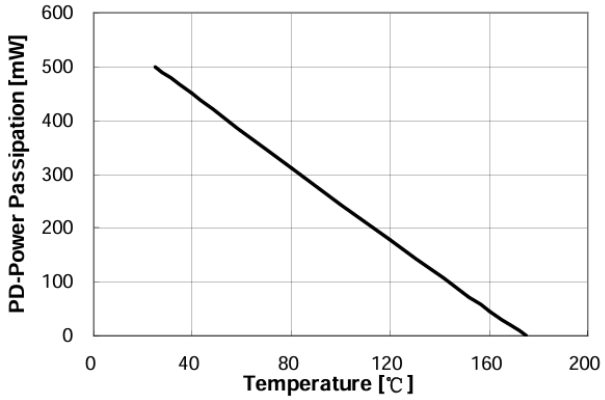


Fig 2. Total Capacitance

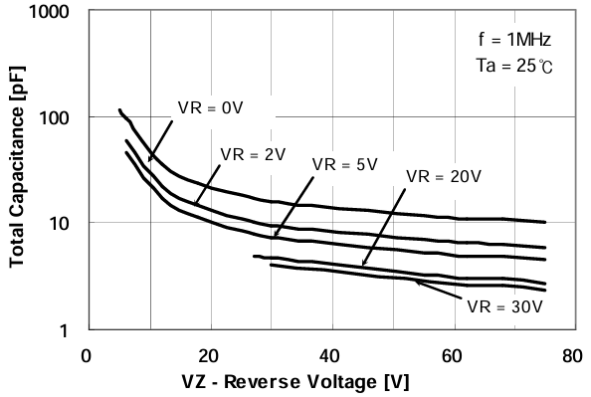


Fig 3. Differential Impedance vs. Zener Voltage

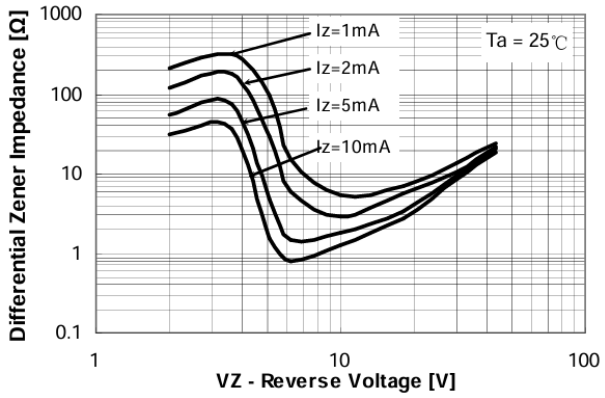


Fig 4. Forward Current vs. Forward Voltage

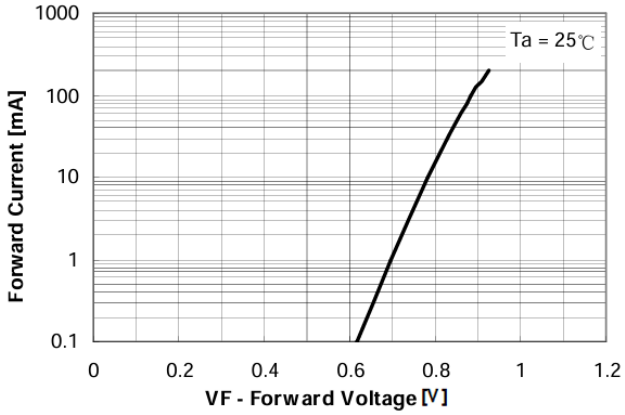


Fig 5. Reverse Current vs. Reverse Voltage

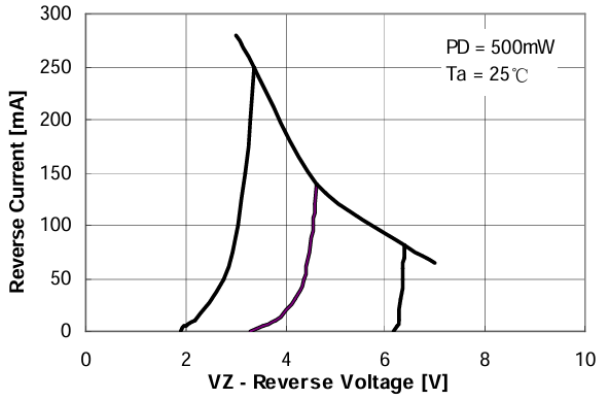
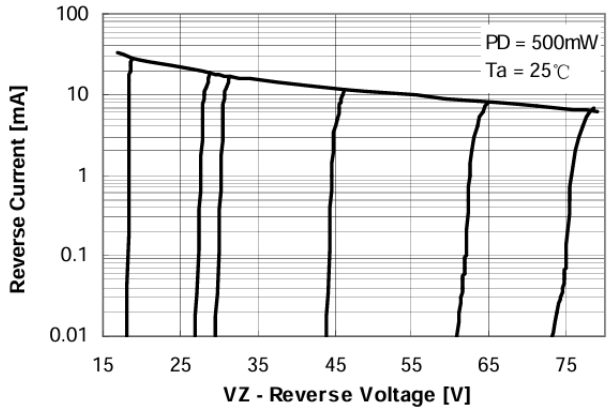
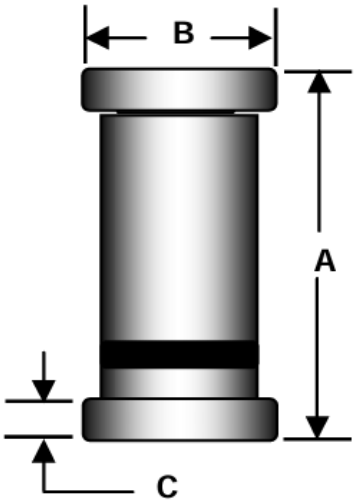


Fig 6. Reverse Current vs. Reverse Voltage



PACKAGE INFORMATION

Dimension in LL-34 Package : LL-34 polarity denoted by cathode band.



DIM	MILLIMETERS	
	MIN	MAX
A	3.300	3.600
B	1.400	1.500
C	0.350	0.500

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