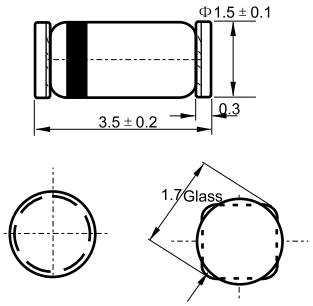
BZV55C SERIES

500mW.Hermetically Sealed Glass Zener Voltage Rectifiers

RoHS COMPLIANT

MINI-MELF



Dimension in millimeters

Features

- ✧ Zener voltage range 2.0 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) lead finish
- ✧ Blue color band indicates negative polarity

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Type Number	Symbol	Value	Units
Power Dissipation	Ptot	500	mW
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to + 200	°C

Notes: These ratings are limiting values above which the serviceability of the diode may be impaired

BZV55C SERIES

500mW.Hermetically Sealed Glass Zener Voltage Rectifiers

RoHS COMPLIANT

RATINGS AND CHARACTERISTIC CURVES (BZV55C SERIES)

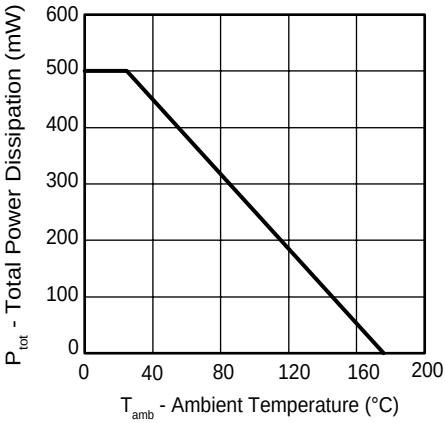


Figure 1. Total Power Dissipation vs. Ambient Temperature

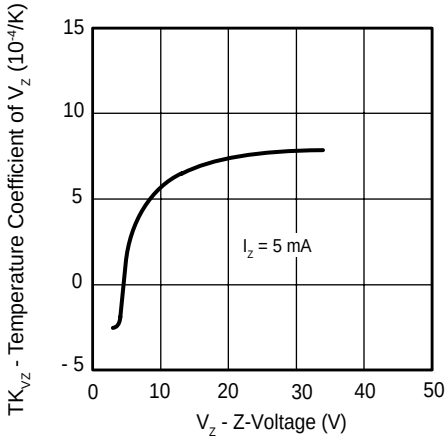


Figure 4. Temperature Coefficient of Vz vs. Z-Voltage

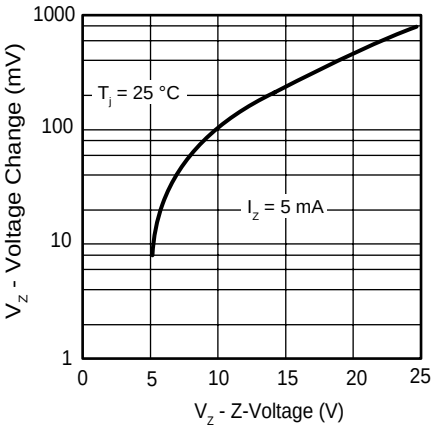


Figure 2. Typical Change of Working Voltage under Operating Conditions at T_{amb}=25°C

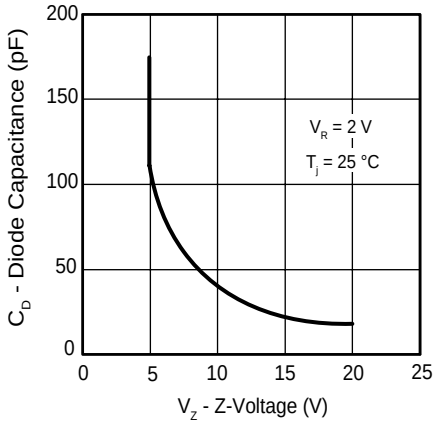


Figure 5. Diode Capacitance vs. Z-Voltage

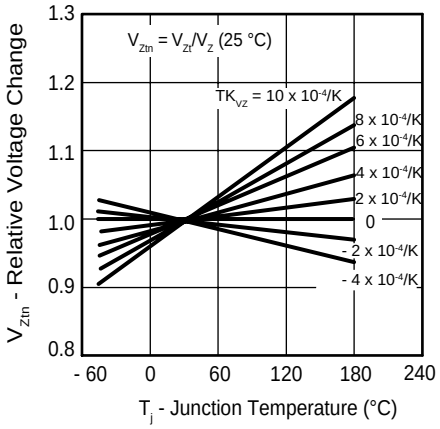


Figure 3. Typical Change of Working Voltage vs. Junction Temperature

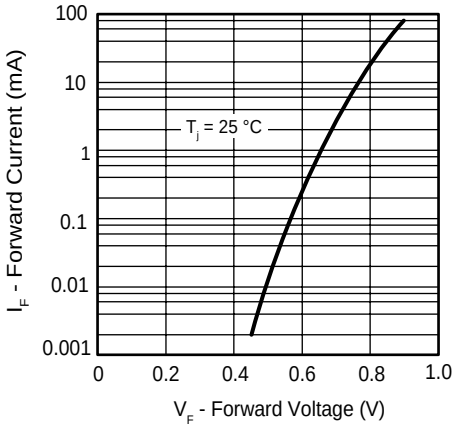


Figure 6. Forward Current vs. Forward Voltage

RATINGS AND CHARACTERISTIC CURVES (BZV55C SERIES)

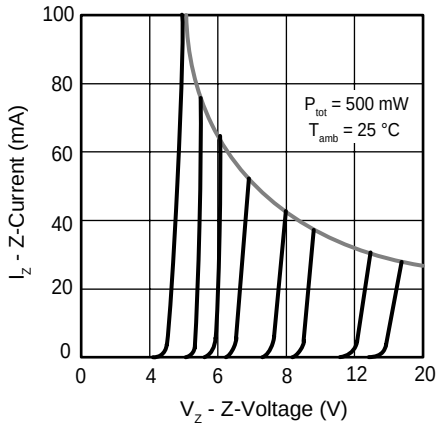


Figure 7. Z-Current vs. Z-Voltage

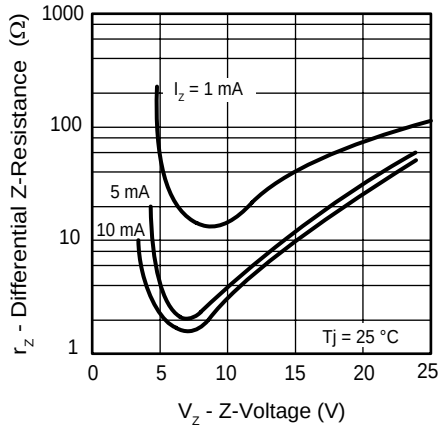


Figure 9. Differential Z-Resistance vs. Z-Voltage

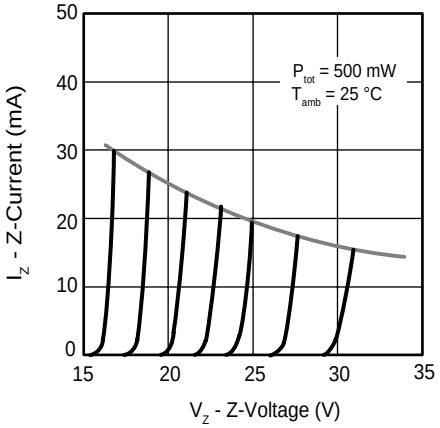


Figure 8. Z-Current vs. Z-Voltage

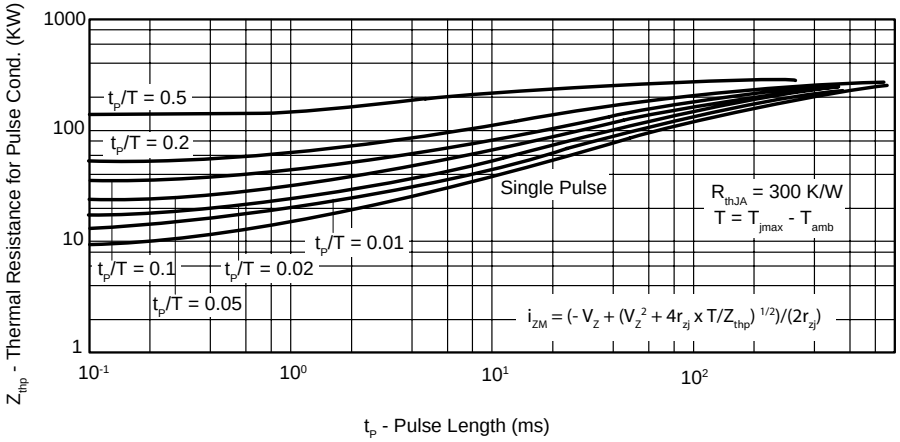


Figure 10. Thermal Response

BZV55C SERIES

500mW.Hermetically Sealed Glass Zener Voltage Rectifiers

RoHS COMPLIANT

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

Type Number	V_Z @ I_{ZT} (Volts)		I_{ZT}	Z_{ZT} @ I_{ZT}	I_{ZK}	Z_{ZK} @ I_{ZK}	I_R @ V_R	V_R
	V_Z Min (V)	V_Z Max (V)	mA	Ohms Max	mA	Ohms	uA Max	V
BZV55C2V0	1.88	2.11	5	100	1.0	600	50	1.0
BZV55C2V2	2.08	2.33	5	100	1.0	600	50	1.0
BZV55C2V4	2.28	2.56	5	85	1.0	600	50	1.0
BZV55C2V7	2.51	2.89	5	85	1.0	600	10	1.0
BZV55C3V0	2.8	3.2	5	85	1.0	600	4	1.0
BZV55C3V3	3.1	3.5	5	85	1.0	600	2	1.0
BZV55C3V6	3.4	3.8	5	85	1.0	600	2	1.0
BZV55C3V9	3.7	4.1	5	85	1.0	600	2	1.0
BZV55C4V3	4.0	4.6	5	75	1.0	600	1	1.0
BZV55C4V7	4.4	5.0	5	60	1.0	600	0.5	1.0
BZV55C5V1	4.8	5.4	5	35	1.0	550	0.1	1.0
BZV55C5V6	5.2	6.0	5	25	1.0	450	0.1	1.0
BZV55C6V2	5.8	6.6	5	10	1.0	200	0.1	2.0
BZV55C6V8	6.4	7.2	5	8	1.0	150	0.1	3.0
BZV55C7V5	7.0	7.9	5	7	1.0	50	0.1	5.0
BZV55C8V2	7.7	8.7	5	7	1.0	50	0.1	6.2
BZV55C9V1	8.5	9.6	5	10	1.0	50	0.1	6.8
BZV55C10	9.4	10.6	5	15	1.0	70	0.1	7.5
BZV55C11	10.4	11.6	5	20	1.0	70	0.1	8.2
BZV55C12	11.4	12.7	5	20	1.0	90	0.1	9.1
BZV55C13	12.4	14.1	5	26	1.0	110	0.1	10
BZV55C15	13.8	15.6	5	30	1.0	110	0.1	11
BZV55C16	15.3	17.1	5	40	1.0	170	0.1	12
BZV55C18	16.8	19.1	5	50	1.0	170	0.1	13
BZV55C20	18.8	21.1	5	55	1.0	220	0.1	15
BZV55C22	20.8	23.3	5	55	1.0	220	0.1	16
BZV55C24	22.8	25.6	5	80	1.0	220	0.1	18
BZV55C27	25.1	28.9	2	80	1.0	220	0.1	20
BZV55C30	28	32	2	80	1.0	220	0.1	22
BZV55C33	31	35	2	80	1.0	220	0.1	24
BZV55C36	34	38	2	80	1.0	220	0.1	27
BZV55C39	37	41	2	90	0.5	500	0.1	28
BZV55C43	40	46	2	90	0.5	600	0.1	32
BZV55C47	44	50	2	110	0.5	700	0.1	35
BZV55C51	48	54	2	125	0.5	700	0.1	38
BZV55C56	52	60	2	135	0.5	1000	0.1	42
BZV55C62	58	66	2.5	150	0.5	1000	0.1	47
BZV55C68	64	72	2.5	160	0.5	1000	0.1	51
BZV55C75	70	80	2.5	170	0.5	1000	0.1	56
VF Forward Voltage = 1.0v Maximum @ IF=100mA for all types.								

Notes:
1. The type numbers listed have zener voltage min/max limits as shown.
2. The zener impedance is derived from the 60-cycle ac voltage, which results when an ac current having an rams value equal to 10% of the dc zener current (I_{ZT} or I_{ZK}) is superimposed to I_{ZT} or I_{ZK}.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Zener Diodes ***category:***

Click to view products by Luguang ***manufacturer:***

Other Similar products are found below :

RKZ13B2KG#P1 DL5234B 1N4682 1N4691 1N4693 1N4732A 1N4733A-TR 1N4736A 1N4750A 1N4759ARL 1N5241B 1N5365B 1N5369B 1N747A 1N959B 1N964B 1N966B 1N968B 1N972B NTE149A NTE5121A NTE5147A NTE5152A NTE5155A NTE5164A JANS1N4974US 1N4692 1N4700 1N4702 1N4704 1N4711 1N4714 1N4737A 1N4745ARL 1N4752A 1N4752ARL 1N4760ARL 1N5221B 1N5236B 1N5241BTR 1N5242BTR 1N5350B 1N5352B 1N961BRR1 1N964BRL RKZ5.1BKU#P6 3SMAJ5950B-TP 3SMBJ5925B-TP TDZTR24 441774C