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



LL-34

Maximum Ratings and Electrical Characteristics

Rating at 25 ℃ 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	℃

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

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

Type Number	V_Z @ I_{ZT} (Volts)		I_{ZT} mA	Z_{ZT} @ I_{ZT} Ohms Max	I_{ZK} mA	Z_{ZK} @ I_{ZK} Ohms	IR @ VR uA Max	VR V
	V_Z Min (V)	V_Z Max (V)						
BZV55-B5V1,115-JSM	5.00	5.2	5	35	1.0	550	0.1	0.1
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 rms value equal to 10 % of the dc zener current (I_{ZT} or I_{ZK}) is superimposed to I_{ZT}or I_{ZK}.

RATINGS AND CHARACTERISTIC CURVES (BZV55B SERIES)

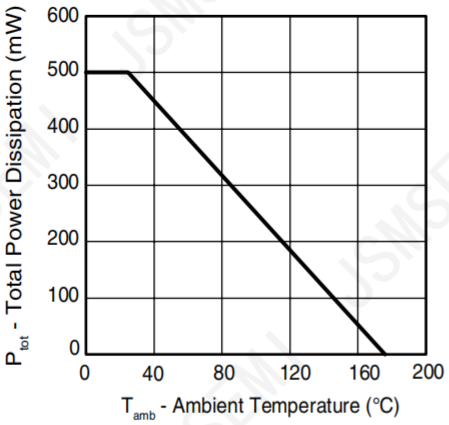


Figure 1. Total Power Dissipation vs. Ambient Temperature

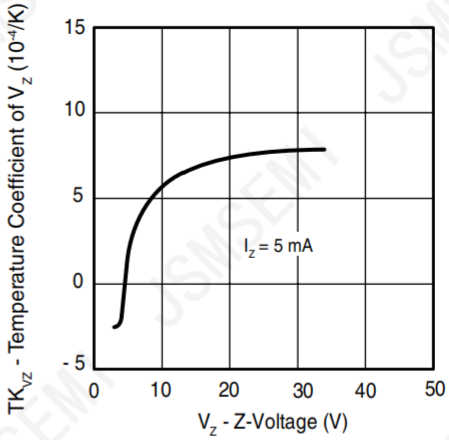


Figure 4. Temperature Coefficient of Vz vs. Z-Voltage

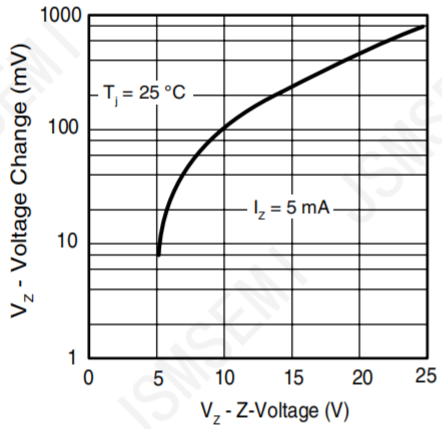


Figure 2. Typical Change of Working Voltage under Operating Conditions at T_{amb}=25°C

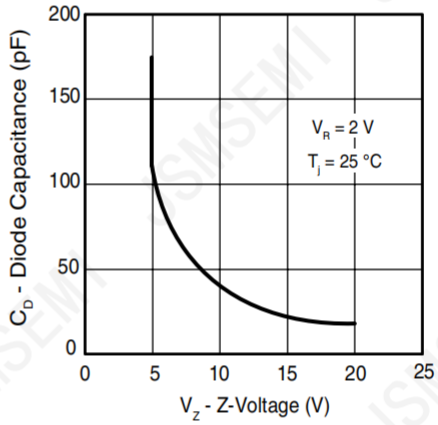


Figure 5. Diode Capacitance vs. Z-Voltage

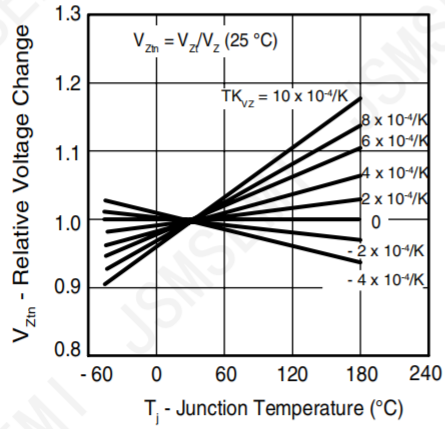


Figure 3. Typical Change of Working Voltage vs. Junction Temperature

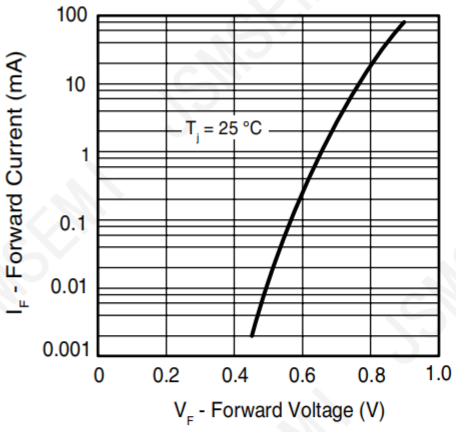


Figure 6. Forward Current vs. Forward Voltage

RATINGS AND CHARACTERISTIC CURVES (BZV55B SERIES)

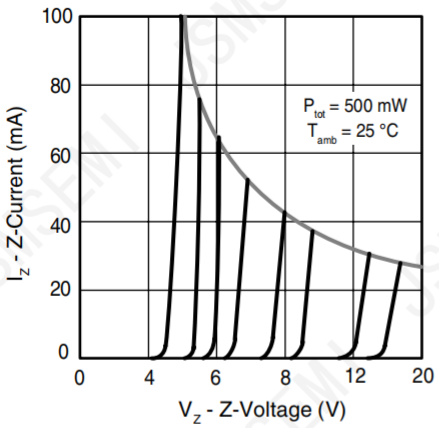


Figure 7. Z-Current vs. Z-Voltage

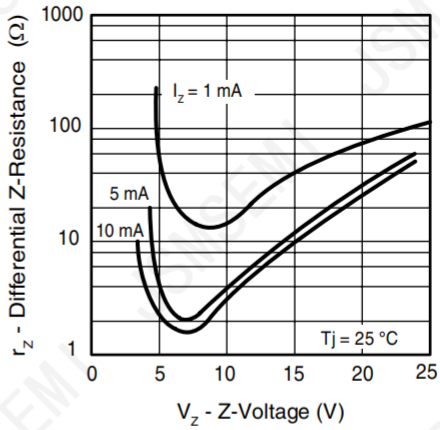


Figure 9. Differential Z-Resistance vs. Z-Voltage

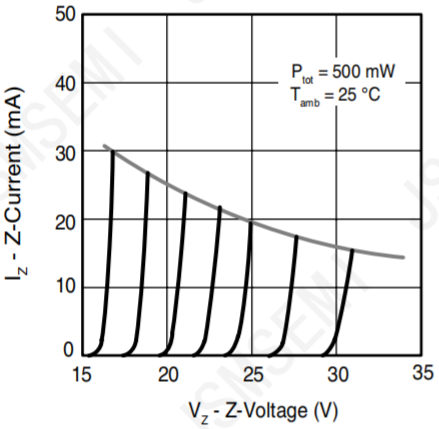


Figure 8. Z-Current vs. Z-Voltage

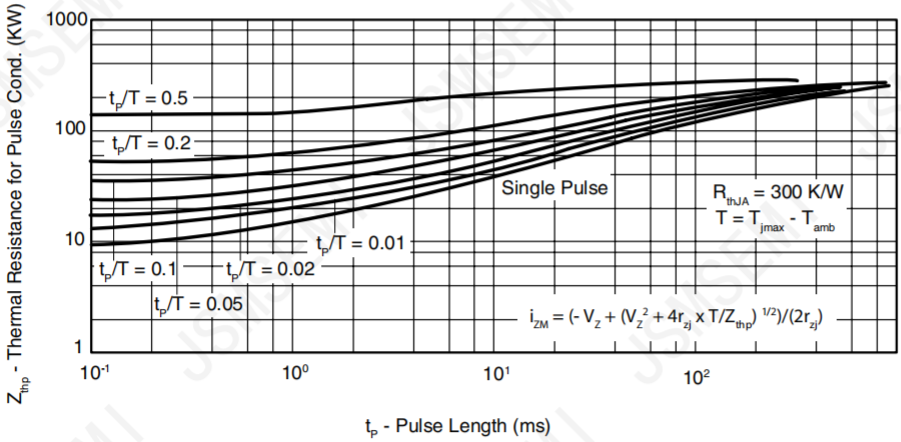
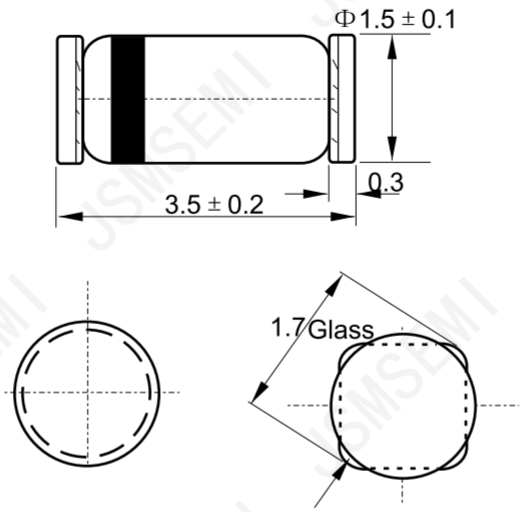


Figure 10. Thermal Response

LL-34



Dimension in millimeters

Revision History

Rev.	Change	Date
V1.0	Initial version	2/23/2024

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