



Features

MiniMELF case especially for automatic insertion. The Zener voltages are graded according to the international E24 standard. Smaller voltage tolerances and higher Zener voltages are upon request. These diodes are also available in DO-35 case with the type designation BZV55C5V1



Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Power Dissipation ¹⁾	P_{tot}	500	mW
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 175	$^\circ\text{C}$

Thermal Characteristics

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F=100\text{mA}$	V_F	1	V
Thermal Resistance Junction to Ambient ¹⁾	$R_{\theta JA}$	300	$^\circ\text{C/W}$

¹⁾ Valid provided that electrodes are kept at ambient temperature.

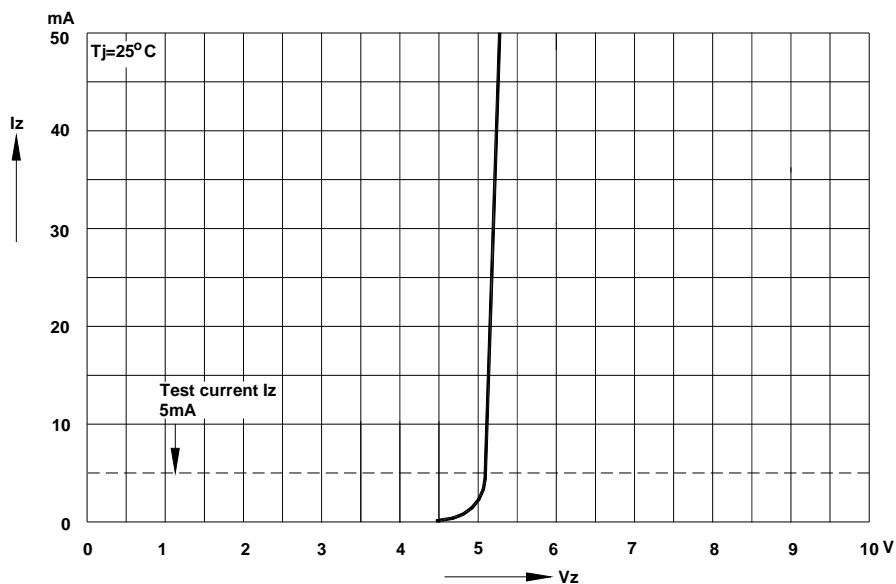
Characteristics at $T_a = 25^\circ\text{C}$

Type	Zener Voltage Range ¹⁾			Dynamic Resistance			Reverse Leakage Current			Temp. Coefficient of Zener Voltage
	$V_{Z\text{nom}}$	V_{ZT}	at I_{ZT}	Z_{ZT}	Z_{ZK}	at I_{ZK}	$T_a = 25^\circ\text{C}$	$T_a = 125^\circ\text{C}$	at V_R	
	(V)	(V)	(mA)	Max. (Ω)	Max. (Ω)	(mA)	Max. (μA)	Max. (μA)	(V)	
BZV55-C5V1,135	5.1	4.8...5.4	5	35	550	1	0.1	2	1	-0.02...+0.02

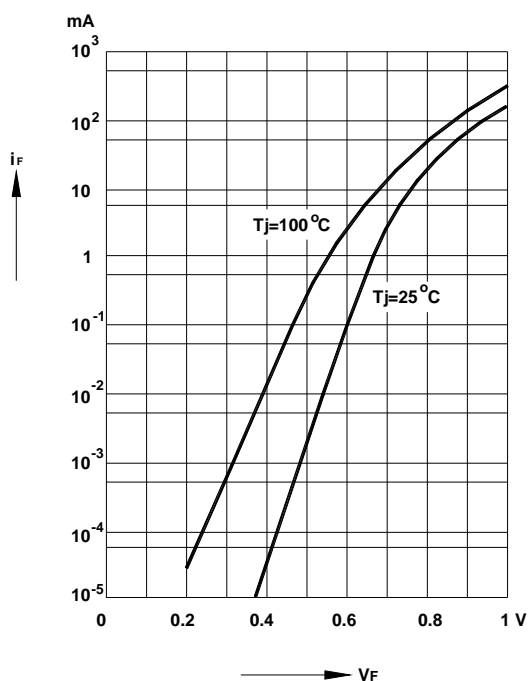
¹⁾ Tested with pulses $t_p = 20\text{ ms}$.



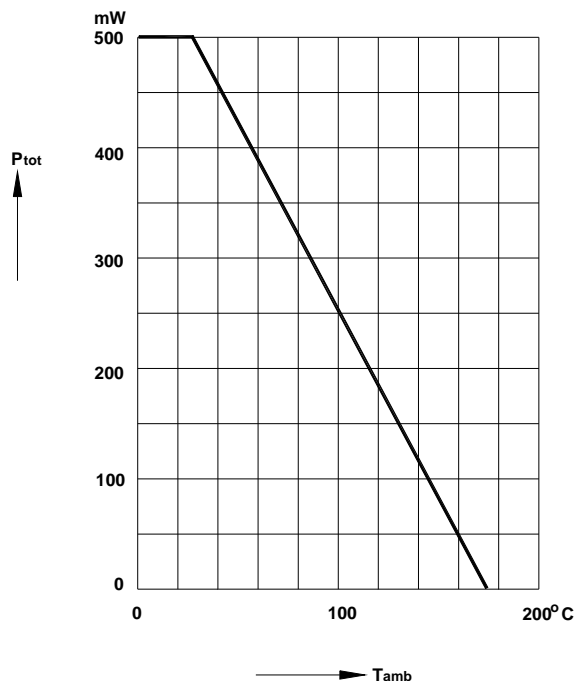
Typical Characteristics



Forward characteristics

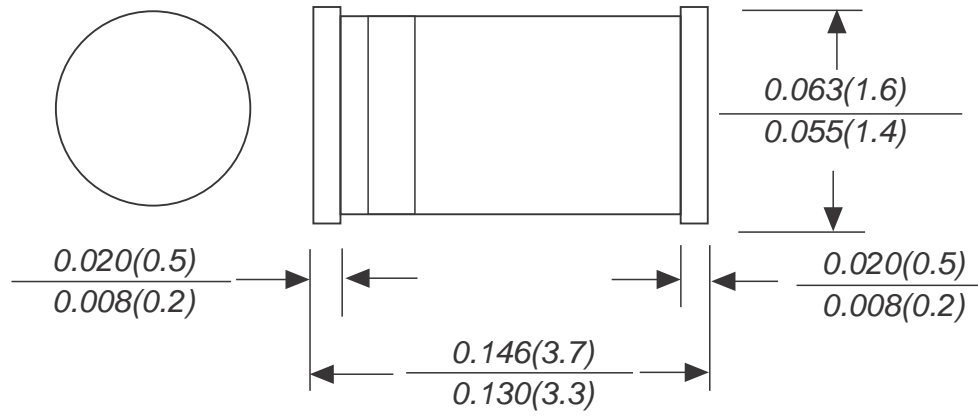


Admissible power dissipation
versus ambient temperature
Valid provided that electrodes are kept
at ambient temperature.





LL-34 Package Information



Dimensions in inches and (millimeters)



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