

Zener Diode



Features:

- Lower profile package.
- Excellent clamping capability.
- Glass passivated junction.
- V_z -tolerance $\pm 5\%$.

Application:

Voltage stabilization.

Absolute Maximum Ratings $T_j = 25^\circ\text{C}$

Parameter	Test Conditions	Symbol	Value	Unit
Power dissipation	$T_{\text{amb}} \leq 50^\circ\text{C}$	P_V	3	W
Z-current		I_Z	P_V / V_Z	mA
Junction temperature		T_j	150	°C
Storage temperature range		T_{stg}	-55 to +175	

Stresses exceeding maximum ratings may damage the device. Maximum ratings are stress ratings only. Functional above the recommended operating conditions is not implied. Extended exposure to stresses above the recommended operating conditions may affect device reliability.

Electrical Characteristics $T_j = 25^\circ\text{C}$

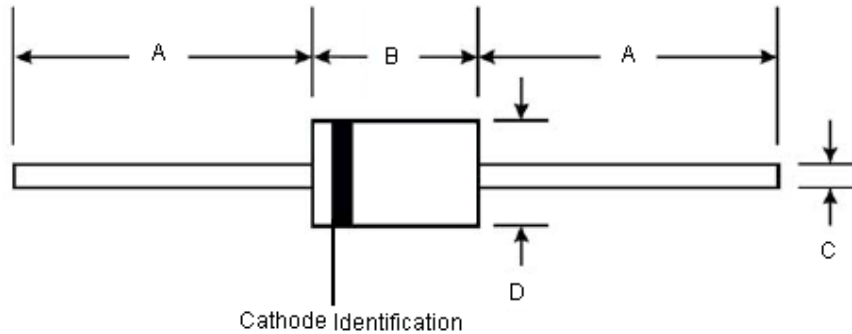
Parameter	Test Conditions	Symbol	Maximum	Unit
Forward voltage	$I_F = 200 \text{ mA}$	V_F	1.5	V

Specification Table

$V_{Z\text{nom}}^{1)}$ V	I_{ZT} for r_{ZT}		r_{Zk} at I_{ZK}		I_R at V_R		Part Number
	mA	Ω	Ω	mA	μA	V	
5.6	66.9	< 2	< 250	1	< 5	3	1N5919B
6.2	60.5	< 2	< 200	1	< 5	4	1N5920B
6.8	55.1	< 2.5	< 200	1	< 5	5.2	1N5921B
10	37.5	< 4.5	< 500	0.25	< 5	8	1N5925B
12	31.2	< 6.5	< 550	0.25	< 1	9.1	1N5927B
15	25	< 9	< 600	0.25	< 1	11.4	1N5929B
18	20.8	< 12	< 650	0.25	< 1	13.7	1N5931B
20	18.7	< 14	< 650	0.25	< 1	15.2	1N5932B
24	15.6	< 19	< 700	0.25	< 1	18.2	1N5934B

¹⁾ Based on DC-measurement at thermal equilibrium while maintaining the lead temperature (T_L) at 30°C , 9.5 mm (3/8") from the diode body.

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Case : Moulded plastic DO-15.
Polarity : Cathode band.

Dimensions				
Dimensions	Inches		mm	
	Min	Max	Min	Max
A	1	-	25.4	-
B	0.23	0.3	5.8	7.6
C	0.026	0.034	0.7	0.9
D	0.104	0.14	2.6	3.6

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