Zener Diode 1N5931B-1N5946B





Features:

- Lower profile package.
- Excellent clamping capability.
- Glass passivated junction.
- V_z-tolerance ±5%.

Applications:

Voltage stabilization.

Absolute Maximum Ratings T_i = 25°C

Parameter	Test Conditions	Symbol	Value	Unit
Power dissipation	$T_{amb} \ge 50^{\circ}C$	Pv	3	W
Z-current		I _z	P _v /V _z	mA
Junction temperature		Tj	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_i = 25°C

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

Specification Table

Description -	V _{Znom} ¹⁾ I _{ZT} for r _{ZjT}		r _{Zjk} at I _{ZK}		I _R at V _R		Part Number			
	V	mA	Ω	Ω	mA	μA	v	Fait Number		
Zener Diode	5.6	66.9	< 2	< 250			3	1N5919B		
Zener Diode	6.2	60.5		< 200	1	- F	4	1N5920B		
Zener Diode	6.8	55.1	< 2.5	< 200		< 5	5.2	1N5921B		
Zener Diode	10	37.5	< 4.5	< 500			8	1N5925B		
Zener Diode	12	31.2	< 6.5	< 550	0.05		9.1	1N5927B		
Zener Diode	15	25	< 9	< 600		0.25	600 0.25		11.4	1N5929B
Zener Diode	18	20.8	< 12	< 650	< 650	0.25	<1	13.7	1N5931B	
Zener Diode	20	18.7	< 14				15.2	1N5932B		
Zener Diode	24	15.6	< 19	< 700	1				18.2	1N5934B

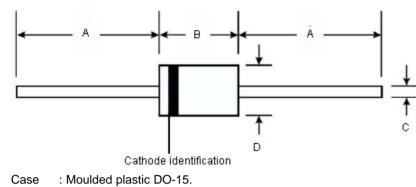
¹⁾ Based on DC-measurement at thermal equilibrium while maintaining the lead temperature (T_L) at 30°C, 9.5mm (3/8 inches) from the diode body.

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Dimensions in mm



Dimensions						
Dimensions	Inc	hes	mm			
	Min	Max	Min	Max		
A	1	-	25.4	-		
В	0.23	0.3	5.8	7.6		
С	0.026	0.034	0.7	0.9		
D	0.104	0.14	2.6	3.6		

Marking

Polarity : Cathode band. Marking : Type number.



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