Zener Diode 1N5931B-1N5946B





Features:

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

Applications:

Voltage stabilization.

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

Parameter	Test Conditions	Symbol	Value	Unit
Power dissipation	T _{amb} ≥ 50°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	C

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 $T_i = 25^{\circ}C$

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	μА	V	Part Number		
Zener Diode	5.6	66.9	< 2	< 250	< 250		3	1N5919B		
Zener Diode	6.2	60.5		< 200	1	< 5	4	1N5920B		
Zener Diode	6.8	55.1	< 2.5	< 200		< 5	5.2	1N5921B		
Zener Diode	10	37.5	< 4.5	< 500	0.25		8	1N5925B		
Zener Diode	12	31.2	< 6.5	< 550		0.25			9.1	1N5927B
Zener Diode	15	25	< 9	< 600					11.4	1N5929B
Zener Diode	18	20.8	< 12	< 650	< 650	0.23	<1	13.7	1N5931B	
Zener Diode	20	18.7	< 14					15.2	1N5932B	
Zener Diode	24	15.6	< 19	< 700				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.

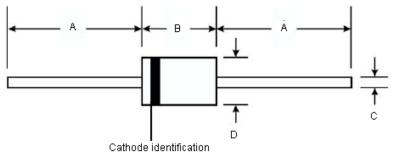
http://www.element14.com http://www.farnell.com http://www.newark.com



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Dimensions in mm



Dimensions						
Dimensions	Inc	hes	mm			
	Min	Max	Min	Max		
А	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		

Case : Moulded plastic DO-15.

Polarity: Cathode band. Marking: Type number.

Marking



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