



Features:

- High reliability.
- Very sharp reverse characteristic.
- Low reverse current level.
- 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	$T_{\text{amb}} \leq 75^\circ\text{C}$	P_V	500	mW
Z-current	-	I_Z	P_V / V_Z	mA
Junction temperature	-	T_j	200	$^\circ\text{C}$
Storage temperature range	-	T_{stg}	-65 to +200	

Maximum Thermal Resistance $T_j = 25^\circ\text{C}$

Parameter	Test Conditions	Symbol	Value	Unit
Junction ambient	$l = 9.5 \text{ mm (3/8") } T_L = \text{constant}$	R_{thJA}	300	K/W

Stresses exceeding maximum ratings may damage the device. Maximum ratings are stress ratings only. Functional operation 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	1.1	V

Zener Diode

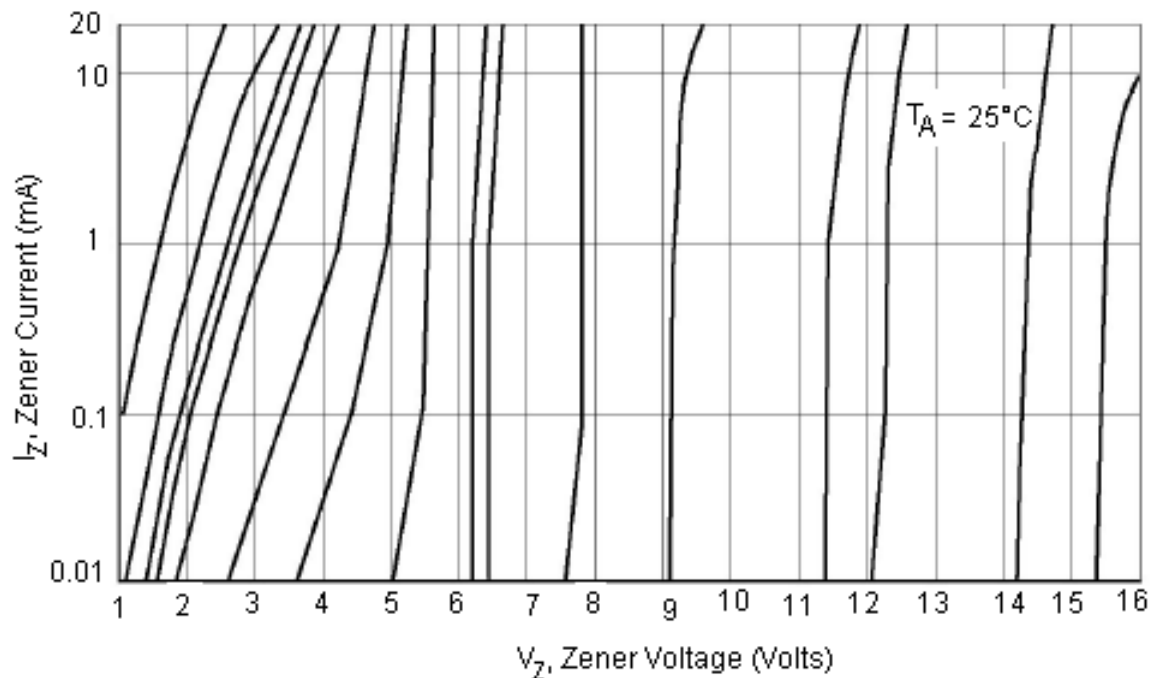


Specification Table

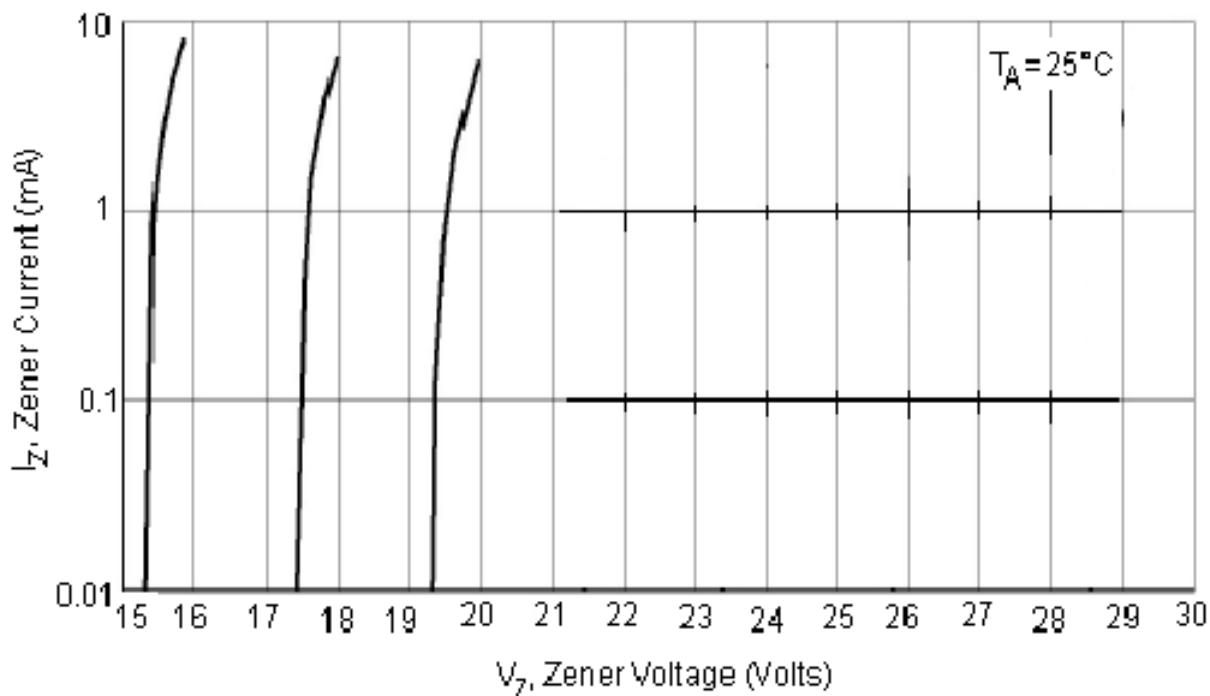
$V_{Znom}^{1)}$	I_{ZT}	for	r_{zIT}	r_{zIK}	at	I_{ZK}	I_R	at	V_R	TK_{VZ}	Part Number
V	mA		Ω	Ω		mA	μA		V	%/K	
2.4	20		< 30	< 1200		0.25	< 100		1	< -0.085	1N5221B
3.3	20		< 28	< 1600		0.25	< 25		1	< -0.070	1N5226B
3.6	20		< 24	< 1700		0.25	< 15		1	< -0.065	1N5227B
3.9	20		< 23	< 1900		0.25	< 10		1	< -0.060	1N5228B
4.3	20		< 22	< 2000		0.25	< 5		1	< +0.055	1N5229B
4.7	20		< 19	< 1900		0.25	< 5		2	< +0.030	1N5230B
5.1	20		< 17	< 1600		0.25	< 5		2	< +0.030	1N5231B
5.6	20		< 11	< 1600		0.25	< 5		3	< +0.038	1N5232B
6	20		< 7	< 1600		0.25	< 5		3.5	< +0.038	1N5233B
6.2	20		< 7	< 1000		0.25	< 5		4	< +0.045	1N5234B
6.8	20		< 5	< 750		0.25	< 3		5	< +0.050	1N5235B
7.5	20		< 6	< 500		0.25	< 3		6	< +0.058	1N5236B
8.2	20		< 8	< 500		0.25	< 3		6.5	< +0.062	1N5237B
8.7	20		< 8	< 600		0.25	< 3		6.5	< +0.065	1N5238B
9.1	20		< 10	< 600		0.25	< 3		7	< +0.068	1N5239B
10	20		< 17	< 600		0.25	< 3		8	< +0.075	1N5240B
11	20		< 22	< 600		0.25	< 2		8.4	< +0.076	1N5241B
12	20		< 30	< 600		0.25	< 1		9.1	< +0.077	1N5242B
13	9.5		< 13	< 600		0.25	< 0.5		9.9	< +0.079	1N5243B
14	9		< 15	< 600		0.25	< 0.1		10	< +0.082	1N5244B
15	8.5		< 16	< 600		0.25	< 0.1		11	< +0.082	1N5245B
16	7.8		< 17	< 600		0.25	< 0.1		12	< +0.083	1N5246B
17	7.4		< 19	< 600		0.25	< 0.1		13	< +0.084	1N5247B
18	7		< 21	< 600		0.25	< 0.1		14	< +0.085	1N5248B
20	6.2		< 25	< 600		0.25	< 0.1		16	< +0.086	1N5250B

¹⁾ Based on DC-measurement at thermal equilibrium while maintaining the lead temperature (T_L) at 30°C, 9.5 mm (38") from the diode body.

Characteristics ($T_j = 25^\circ\text{C}$ unless otherwise specified)

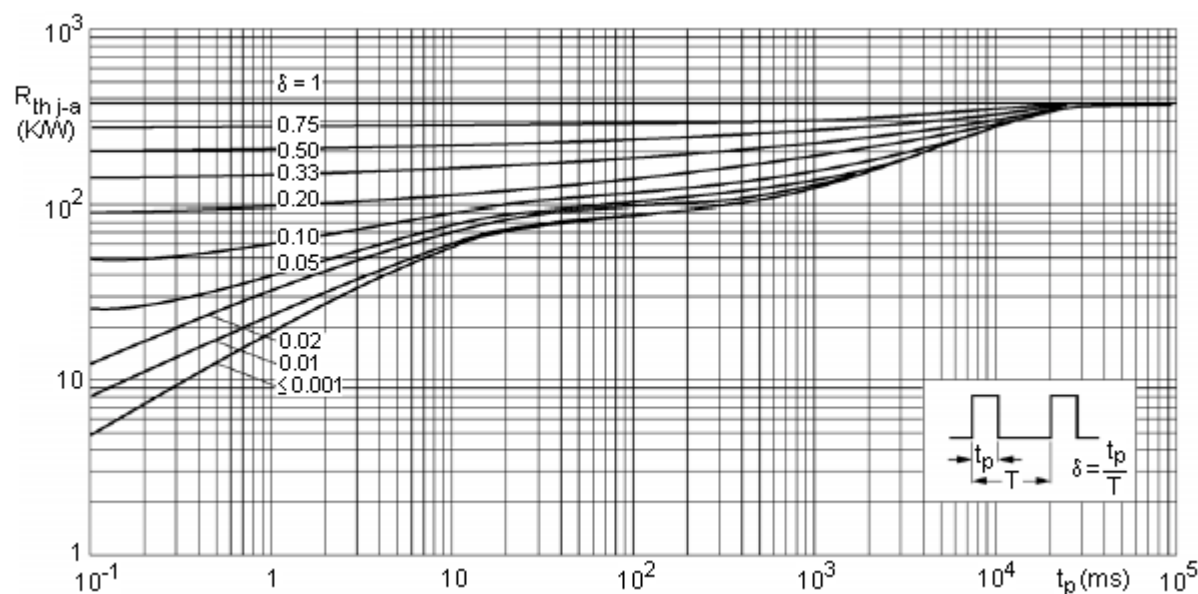


Zener Voltage versus Zener Current - $V_Z = 1$ thru 16 Volts



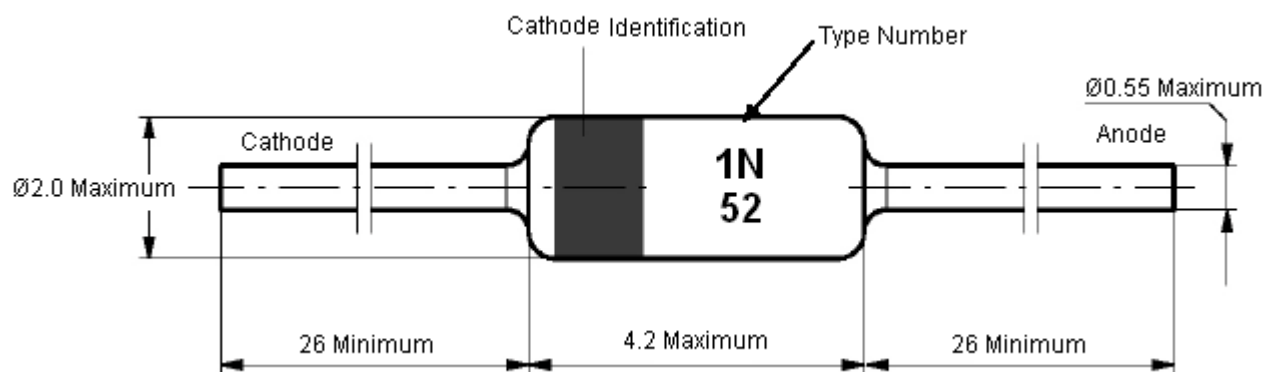
Zener Voltage versus Zener Current - $V_Z = 15$ thru 30 Volts

Characteristics ($T_j = 25^\circ\text{C}$ unless otherwise specified)



Thermal Resistance from Junction to Ambient as a Function of Pulse Duration

Dimensions



Standard Glass Case
JEDEC DO-35

Dimensions : Millimetres

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