



Features:

- High reliability.
- · Very sharp reverse characteristic.
- Low reverse current level.
- V_z-tolerance ±5%.

Application:

Voltage stabilization.

Absolute Maximum Ratings T_i = 25°C

Parameter	Test Conditions	Symbol	Value	Unit
Power dissipation	T _{amb} ≤ 50°C	P _v	1	W
Z-current	-	I _z	P_v/V_z	mA
Junction temperature	-	Tj	200	°C
Storage temperature range	-	T _{stg}	-65 to +175	C

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

Parameter	Test Conditions	Symbol	Value	Unit
Junction ambient	$I = 9.5 \text{ mm } (3/8") T_L = \text{constant}$	R_{thJA}	100	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_i = 25°C

Parameter	Test Conditions	Symbol	Maximum	Unit
Forward voltage	I _F = 200 mA	V _F	1.2	V

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Specification Table

V _{Znom} 1)	I _{ZT} fo	or r _{ziT}	r _{ziK} a	at I _{ZK}	I_R at V_R		Dowt November	
٧	mA	Ω	Ω	mA	μA	V	- Part Number	
3.3	76	< 10	< 400	1	< 100	1	1N4728A	
3.6	69	< 10	< 400	1	< 100	1	1N4729A	
3.9	64	< 9	< 400	1	< 50	1	1N4730A	
4.7	53	< 8	< 500	1	< 10	1	1N4732A	
5.1	49	< 7	< 550	1	< 10	1	1N4733A	
5.6	45	< 5	< 600	1	< 10	2	1N4734A	
6.2	41	< 2	< 700	1	< 10	3	1N4735A	
6.8	37	< 3.5	< 700	1	< 10	4	1N4736A	
7.5	34	< 4	< 700	0.5	< 10	5	1N4737A	
8.2	31	< 4.5	< 700	0.5	< 10	6	1N4738A	
9.1	28	< 5	< 700	0.5	< 10	7	1N4739A	
10	25	< 7	< 700	0.25	< 10	7.6	1N4740A	
11	23	< 8	< 700	0.25	< 5	8.4	1N4741A	
12	21	< 9	< 700	0.25	< 5	9.1	1N4742A	
13	19	< 10	< 700	0.25	< 5	9.9	1N4743A	
15	17	< 14	< 700	0.25	< 5	11.4	1N4744A	
16	15.5	< 16	< 700	0.25	< 5	12.2	1N4745A	
18	14	< 20	< 750	0.25	< 5	13.7	1N4746A	
20	12.5	< 22	< 750	0.25	< 5	15.2	1N4747A	
22	11.5	< 23	< 750	0.25	< 5	16.7	1N4748A	
24	10.5	< 25	< 750	0.25	< 5	18.2	1N4749A	
27	9.5	< 35	< 750	0.25	< 5	20.6	1N4750A	
30	8.5	< 40	< 1000	0.25	< 5	22.8	1N4751A	
33	7.5	< 45	< 1000	0.25	< 5	25.1	1N4752A	
36	7	< 50	< 1000	0.25	< 5	27.4	1N4753A	
39	6.5	< 60	< 1000	0.25	< 5	29.7	1N4754A	
43	6	< 70	< 1500	0.25	< 5	32.7	1N4755A	
47	5.5	< 80	< 1500	0.25	< 5	35.8	1N4756A	
51	5	< 95	< 1500	0.25	< 5	38.8	1N4757A	
56	4.5	< 110	< 2000	0.25	< 5	42.6	1N4758A	
62	4	< 125	< 2000	0.25	< 5	47.1	1N4759A	
68	3.7	< 150	< 2000	0.25	< 5	51.7	1N4760A	
75	3.3	< 175	< 2000	0.25	< 5	56	1N4761A	
	l	1	1	I	1		1	

 $^{^{1)}}$ 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.

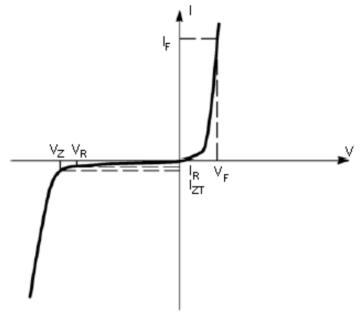
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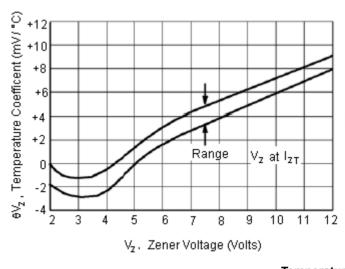


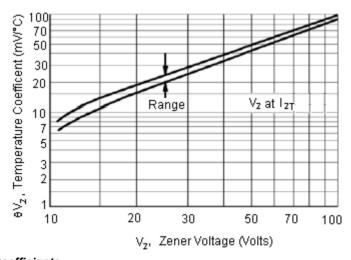
Characteristics ($T_j = 25$ °C unless otherwise specified)

Symbol	Parameter		
V _Z	Reverse zener voltage at I _{ZT}		
I _{ZT}	Reverse current		
Z _{ZT}	Maximum zener impedance at I _{ZT}		
I _{ZK}	Reverse current		
Z _{ZK}	Maximum zener impedance at I _{ZK}		
I _R	Reverse leakage current at V _R		
V _R	Breakdown voltage		
I _F	Forward current		
V _F	Forward voltage at I _F		



Zener Voltage Regulator



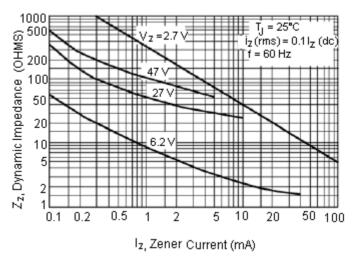


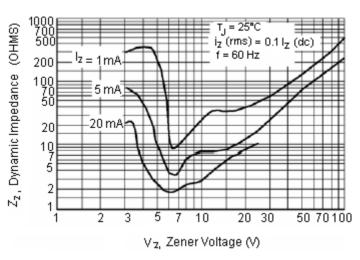
Temperature Coefficients

(-55°C to +150°C temperature range; 90% of the units are in the ranges indicated)



Characteristics (T_j = 25°C unless otherwise specified)

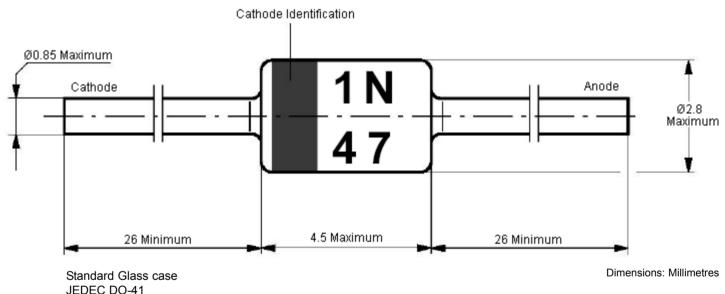




Effect of Zener Current on Zener Impedance

Effect of Zener Voltage on Zener Impedance

Dimensions



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