1N4728, 1N4729, 1N4730, 1N4731, 1N4732, 1N4733, 1N4734, 1N4735, 1N4736, 1N4737, Zener diode

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Focus Keyphrase
1N4728 to 1N4737 Zener Diode Voltages 3.3V-7.5V (47 characters)

SEO Title
1N4728A-1N4737A Zener Diodes Voltages Chart | Mbsmpro.com 3.3V to 7.5V 1W

Meta Description
Discover precise **Zener voltages** for **1N4728 (3.3V)** to **1N4737 (7.5V)** diodes. Full specs, comparisons, and datasheets for voltage regulation. Essential guide from Mbsmpro.com for electronics pros. (148 characters)

Voltage of Zener Diode

1N728A 3.3V	1N1722A	**1N733A** 5.1V	1N4733A
1N729A 3.6V	1N1728A	**1N734A** 5.6V	1N2706A
1N730A 3.9V	1N7239A	**1N735A** 6.2V	1N4765A
1N731A 4.3V	1N7237A	**1N736A** 6.8V	1N4765A
1N732A 4.7V	1N7732A	**1N737A** 7.5V	1N4396A

Slug

Tags
1N4728, 1N4729, 1N4730, 1N4731, 1N4732, 1N4733, 1N4734, 1N4735, 1N4736, 1N4737, Zener diode, voltage reference, 1W Zener, DO-41 package, electronics components, voltage regulator, Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm

Excerpt (first 55 words)
Zener diodes like the **1N4728A thru 1N4737A** series deliver reliable voltage regulation from **3.3V to 7.5V** at 1W power. Engineers rely on these for stabilizing circuits in power supplies and protection setups. Check the full voltage chart and specs below for your next project. (55 words)

1N4728A to 1N4737A Zener Diodes: Voltages, Specs & Comparisons | Mbsmpro.com

Technicians and engineers turn to the **1N47xxA series Zener diodes** for precise voltage clamping in everything from power supplies to signal protection. These 1-watt components handle breakdowns from **3.3 volts up to 7.5 volts**, making them staples in low-voltage regulation tasks. Built in the rugged DO-41 glass package, they withstand industrial demands while keeping costs down

Complete Voltage Chart

This table lists the **nominal Zener voltages** straight from manufacturer specs, matching common references for quick selection. Tolerance stays at ±5% across the board.

Part Number	Zener Voltage (Vz)	Test Current (IzT)	Max Zener Impedance (Zz)	Max Power (Pd)
1N4728A	**3.3V**	76 mA	10 Ω	1W
1N4729A	**3.6V**	69 mA	10 Ω	1W
1N4730A	**3.9V**	64 mA	9 Ω	1W
1N4731A	**4.3V**	58 mA	9 Ω	1W
1N4732A	**4.7V**	53 mA	9 Ω	1W
1N4733A	**5.1V**	49 mA	9 Ω	1W
1N4734A	**5.6V**	45 mA	9 Ω	1W
1N4735A	**6.2V**	41 mA	10 Ω	1W
1N4736A	**6.8V**	37 mA	10 Ω	1W
1N4737A	**7.5V**	34 mA	15 Ω	1W

Key Specifications Breakdown

All models share a **1-watt power dissipation** at 50°C ambient, forward voltage under 1.2V at 200mA, and operation up to 200°C junction temperature. Reverse leakage stays low, under 100µA at 1V, ensuring stability in sensitive apps. The glass DO-41 case measures about 5mm long with axial leads for easy PCB mounting.

Comparisons with 0.5W Series

Higher power like these **1N47xxA diodes** beats smaller 0.5W options such as **1N52xxB** for demanding loads—think 1W vs. half that capacity without heatsinking. For instance, **1N5231B (5.1V 0.5W)** leaks more under heat and derates faster above 75°C. Use 1W versions in converters or regulators where reliability counts over board space.

Feature	1N47xxA (1W)	1N52xxB (0.5W)
Power Rating	1W @ 50°C	0.5W @ 75°C
Package	DO-41	DO-35 (smaller)
Vz Example 5.1V	1N4733A, 49mA Iz	1N5231B, 20mA Iz
Max Temp	200°C	200°C
Best For	High-current regulation	Low-power signals

Value Comparisons Across Voltages

Lower voltages like **1N4728A 3.3V** offer higher test currents (76mA) for sharper knee characteristics, ideal for 3-5V logic rails. Higher ones like **1N4737A 7.5V** suit battery charging or 12V drops, but impedance climbs to 15Ω—limiting dynamic response. Prices hover at $0.05-$0.15 per unit in bulk, with 5.1V (1N4733A) most common for USB/5V apps.

Voltage Range	Example Part	IzT (mA)	Zz (Ω)	Bulk Price (est.)
3.3-4.3V	1N4728A-1N4731A	58-76	9-10	$0.05
4.7-5.6V	1N4732A-1N4734A	45-53	9	$0.07
6.2-7.5V	1N4735A-1N4737A	34-41	10-15	$0.10

Grab datasheets for full curves and stock these at Mbsmpro.com for your HVAC controls or refrigeration boards—they pair great with compressors needing stable rails.

1n4728aDownload