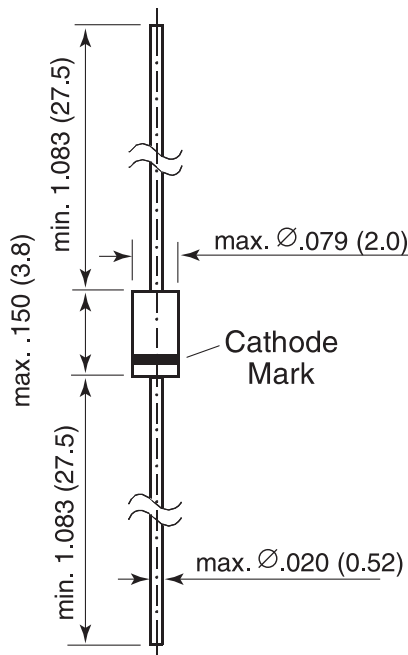


# Zener Diodes

Vz Range 2.0 to 36V  
Power Dissipation 500mW

## DO-204AH (DO-35 Glass)



Dimensions in inches and (millimeters)

## Features

- Silicon Planar Power Zener Diodes.
- Voltage spectrum from 2.2V to 38V
- The Zener voltages are graded according to voltage bands instead of by tolerance.
- Low Zener impedance and low leakage current
- Popular in Asian designs

## Mechanical Data

Case: DO-35 Glass Case

Weight: approx. 0.13g

Marking: | GS |  
 | Type |  
 | Grade |

### Packaging Codes/Options:

D7/10K per 13" reel (52mm tape), 20K/box  
 D8/10K per Ammo tape (52mm tape), 20K/box

## Maximum Ratings and Thermal Characteristics (TA = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Power Dissipation	P <sub>d</sub>	500	mW
Junction Temperature	T <sub>j</sub>	-50 to +175	°C
Storage Temperature Range	T <sub>stg</sub>	-55 to +175	°C

# GZ Series

Vishay Semiconductors  
formerly General Semiconductor



## Electrical Characteristics (T<sub>J</sub> = 25°C unless otherwise noted) Maximum V<sub>F</sub>=1.2V at I<sub>F</sub>=200mA

Type	Grade	Zener Voltage V <sub>Z</sub> (V) <sup>(1)</sup>		Test Condition I <sub>Z</sub> (mA)	Reverse Current		Dynamic Resistance	
		Min	Max		I <sub>R</sub> (μA) Max	Test Condition V <sub>R</sub> (V)	r <sub>d</sub> (Ω) Max	Test Condition I <sub>Z</sub> (mA)
GZ2	C1	2.2	2.4	5	5	0.5	100	5
GZ2	C2	2.3	2.5	5	5	0.5	100	5
GZ2	C3	2.4	2.6	5	5	0.5	100	5
GZ3	A1	2.5	2.7	5	5	0.5	100	5
GZ3	A2	2.6	2.8	5	5	0.5	100	5
GZ3	A3	2.7	2.9	5	5	0.5	100	5
GZ3	B1	2.8	3.0	5	5	0.5	100	5
GZ3	B2	2.9	3.1	5	5	0.5	100	5
GZ3	B3	3.0	3.2	5	5	0.5	100	5
GZ3	C1	3.1	3.3	5	5	0.5	100	5
GZ3	C2	3.2	3.4	5	5	0.5	100	5
GZ3	C3	3.3	3.5	5	5	0.5	100	5
GZ4	A1	3.4	3.6	5	5	1.0	100	5
GZ4	A2	3.5	3.7	5	5	1.0	100	5
GZ4	A3	3.6	3.8	5	5	1.0	100	5
GZ4	B1	3.7	3.9	5	5	1.0	100	5
GZ4	B2	3.8	4.0	5	5	1.0	100	5
GZ4	B3	3.9	4.1	5	5	1.0	100	5
GZ4	C1	4.0	4.2	5	5	1.0	100	5
GZ4	C2	4.1	4.3	5	5	1.0	100	5
GZ4	C3	4.2	4.4	5	5	1.0	100	5
GZ5	A1	4.3	4.5	5	5	1.5	100	5
GZ5	A2	4.4	4.6	5	5	1.5	100	5
GZ5	A3	4.5	4.7	5	5	1.5	100	5
GZ5	B1	4.6	4.8	5	5	1.5	100	5
GZ5	B2	4.7	4.9	5	5	1.5	100	5
GZ5	B3	4.8	5.0	5	5	1.5	100	5
GZ5	C1	4.9	5.1	5	5	1.5	100	5
GZ5	C2	5.0	5.2	5	5	1.5	100	5
GZ5	C3	5.1	5.3	5	5	1.5	100	5
GZ6	A1	5.2	5.5	5	5	2.0	40	5
GZ6	A2	5.3	5.6	5	5	2.0	40	5
GZ6	A3	5.4	5.7	5	5	2.0	40	5
GZ6	B1	5.5	5.8	5	5	2.0	40	5
GZ6	B2	5.6	5.9	5	5	2.0	40	5
GZ6	B3	5.7	6.0	5	5	2.0	40	5
GZ6	C1	5.8	6.1	5	5	2.0	40	5
GZ6	C2	6.0	6.3	5	5	2.0	40	5
GZ6	C3	6.1	6.4	5	5	2.0	40	5
GZ7	A1	6.3	6.6	5	1	3.5	15	5
GZ7	A2	6.4	6.7	5	1	3.5	15	5
GZ7	A3	6.6	6.9	5	1	3.5	15	5
GZ7	B1	6.7	7.0	5	1	3.5	15	5
GZ7	B2	6.9	7.2	5	1	3.5	15	5
GZ7	B3	7.0	7.3	5	1	3.5	15	5
GZ7	C1	7.2	7.6	5	1	3.5	15	5
GZ7	C2	7.3	7.7	5	1	3.5	15	5
GZ7	C3	7.5	7.9	5	1	3.5	15	5
GZ9	A1	7.7	8.1	5	1	5.0	20	5
GZ9	A2	7.9	8.3	5	1	5.0	20	5
GZ9	A3	8.1	8.5	5	1	5.0	20	5
GZ9	B1	8.3	8.7	5	1	5.0	20	5
GZ9	B2	8.5	8.9	5	1	5.0	20	5
GZ9	B3	8.7	9.1	5	1	5.0	20	5

Note: (1) Tested with 40ms pulse



**Electrical Characteristics** ( $T_J = 25^\circ\text{C}$  unless otherwise noted) Maximum  $V_F=1.2\text{V}$  at  $I_F=200\text{mA}$

Type	Grade	Zener Voltage $V_Z$ (V) <sup>(1)</sup>		Test Condition $I_Z$ (mA)	Reverse Current		Dynamic Resistance	
		Min	Max		$I_R$ ( $\mu\text{A}$ ) Max	Test Condition $V_R$ (V)	$r_d$ ( $\Omega$ ) Max	Test Condition $I_Z$ (mA)
GZ9	C1	8.9	9.3	5	1	5.0	20	5
GZ9	C2	9.1	9.5	5	1	5.0	20	5
GZ9	C3	9.3	9.7	5	1	5.0	20	5
GZ11	A1	9.5	9.9	5	1	7.5	25	5
GZ11	A2	9.7	10.1	5	1	7.5	25	5
GZ11	A3	9.9	10.3	5	1	7.5	25	5
GZ11	B1	10.2	10.6	5	1	7.5	25	5
GZ11	B2	10.4	10.8	5	1	7.5	25	5
GZ11	B3	10.7	11.1	5	1	7.5	25	5
GZ11	C1	10.9	11.3	5	1	7.5	25	5
GZ11	C2	11.1	11.6	5	1	7.5	25	5
GZ11	C3	11.4	11.9	5	1	7.5	25	5
GZ12	A1	11.6	12.1	5	1	9.5	35	5
GZ12	A2	11.9	12.4	5	1	9.5	35	5
GZ12	A3	12.2	12.7	5	1	9.5	35	5
GZ12	B1	12.4	12.9	5	1	9.5	35	5
GZ12	B2	12.6	13.1	5	1	9.5	35	5
GZ12	B3	12.9	13.4	5	1	9.5	35	5
GZ12	C1	13.2	13.7	5	1	9.5	35	5
GZ12	C2	13.5	14.0	5	1	9.5	35	5
GZ12	C3	13.8	14.3	5	1	9.5	35	5
GZ15	1	14.1	14.7	5	1	11	40	5
GZ15	2	14.5	15.1	5	1	11	40	5
GZ15	3	14.9	15.5	5	1	11	40	5
GZ16	1	15.3	15.9	5	1	12	45	5
GZ16	2	15.7	16.5	5	1	12	45	5
GZ16	3	16.3	17.1	5	1	12	45	5
GZ18	1	16.9	17.7	5	1	13	55	5
GZ18	2	17.5	18.3	5	1	13	55	5
GZ18	3	18.1	19.0	5	1	13	55	5
GZ20	1	18.8	19.7	2	1	15	60	2
GZ20	2	19.5	20.4	2	1	15	60	2
GZ20	3	20.2	21.1	2	1	15	60	2
GZ22	1	20.9	21.9	2	1	17	65	2
GZ22	2	21.6	22.6	2	1	17	65	2
GZ22	3	22.3	23.3	2	1	17	65	2
GZ24	1	22.9	24.0	2	1	19	70	2
GZ24	2	23.6	24.7	2	1	19	70	2
GZ24	3	24.3	25.5	2	1	19	70	2
GZ27	1	25.2	26.6	2	1	21	80	2
GZ27	2	26.2	27.6	2	1	21	80	2
GZ27	3	27.2	28.6	2	1	21	80	2
GZ30	1	28.2	29.6	2	1	23	100	2
GZ30	2	29.2	30.6	2	1	23	100	2
GZ30	3	30.2	31.6	2	1	23	100	2
GZ33	1	31.2	32.6	2	1	25	120	2
GZ33	2	32.2	33.6	2	1	25	120	2
GZ33	3	33.2	34.6	2	1	25	120	2
GZ36	1	34.2	35.7	2	1	27	140	2
GZ36	2	35.3	36.8	2	1	27	140	2
GZ36	3	36.4	38.0	2	1	27	140	2

Note:(1) Tested with 40ms pulse