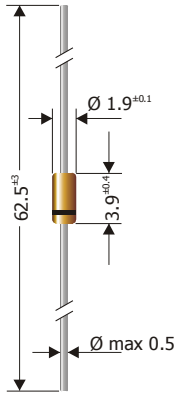
HZ2A1 ... HZ36-3 (500 mW)

Silicon Planar Zener Diodes
Silizium-Planar-Zener-Dioden

Version 2012-11-19



Dimensions - Maße [mm]

Maximum power dissipation Maximale Verlustleistung	500 mW
Nominal Z-voltage Nominale Z-Spannung	1.6...38 V
Glass case Glasgehäuse	~ DO-35 ~ (SOD-27)
Weight approx. Gewicht ca.	0.13 g

Standard packaging taped in ammo pack
Standard Lieferform gegurtet in Ammo-Pack

All of these special type zener diodes are available only on request.

Alle Typen dieser speziellen Zenerdioden sind nur auf Anfrage erhältlich.

Maximum ratings and Characteristics **Grenz- und Kennwerte**

		ZPD-series
Power dissipation Verlustleistung	T_A = 25°C	P_{tot}	500 mW [1])
Operating junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur		T_j T_S	-50...+175°C -50...+175°C
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft		R_{thA}	< 300 K/W [1])
Thermal resistance junction to lead Wärmewiderstand Sperrschicht – Anschlussdraht		R_{thL}	< 240 K/W

Zener voltages see table on next page – Zener-Spannungen siehe Tabelle auf der nächsten Seite

1 Valid, if leads are kept at ambient temperatere at a distance of 10 mm from case
Gültig, wenn die Anschlussdrähte in 10 mm Abstand vom Gehäuse auf Umgebungstemperatur gehalten werden
2 Tested with pulses – Gemessen mit Impulsen

Maximum ratings

Type Typ	Zener voltage Zener-Spannung I_Z = 5 mA		Dynamic resistance Differentieller Widerstand r_{zj} [Ω] at f = 1 kHz	Reverse voltage Sperrspannung I_R = 1 µA
	V_{zmin} [V]	V_{zmax} [V]	I_Z = 5 mA	V_R [V]
HZ2A1	1.6	1.8	<100	>0.5 (25µA)
HZ2A2	1.7	1.9		
HZ2A3	1.8	2.0		
HZ2B1	1.9	2.1	<100	>0.5 (5µA)
HZ2B2	2.0	2.2		
HZ2B3	2.1	2.3		
HZ2C1	2.2	2.4		
HZ2C2	2.3	2.5		
HZ2C3	2.4	2.6		
HZ3A1	2.5	2.7	<100	>0.5 (5µA)
HZ3A2	2.6	2.8		
HZ3A3	2.7	2.9		
HZ3B1	2.8	3.0		
HZ3B2	2.9	3.1		
HZ3B3	3.0	3.2		
HZ3C1	3.1	3.3		
HZ3C2	3.2	3.4		
HZ3C3	3.3	3.5		
HZ4A1	3.4	3.6	<100	>1 (5µA)
HZ4A2	3.5	3.7		
HZ4A3	3.6	3.8		
HZ4B1	3.7	3.9		
HZ4B2	3.8	4.0		
HZ4B3	3.9	4.1		
HZ4C1	4.0	4.2		
HZ4C2	4.1	4.3		
HZ4C3	4.2	4.4		
HZ5A1	4.3	4.5	<100	>1.5 (5µA)
HZ5A2	4.4	4.6		
HZ5A3	4.5	4.7		
HZ5B1	4.6	4.8		
HZ5B2	4.7	4.9		
HZ5B3	4.8	5.0		
HZ5C1	4.9	5.1		
HZ5C2	5.0	5.2		
HZ5C3	5.1	5.3		
HZ6A1	5.2	5.5	<40	>2 (5µA)
HZ6A2	5.3	5.6		
HZ6A3	5.4	5.7		
HZ6B1	5.5	5.8		
HZ6B2	5.6	5.9		

Maximum ratings

Type Typ	Zener voltage Zener-Spannung I_Z = 5 mA		Dynamic resistance Diff. Widerstand r_{zj} [Ω] at f = 1 kHz	Reverse volt. Sperrspanng. I_R = 1 µA
	V_{zmin} [V]	V_{zmax} [V]	I_Z = 5 mA	V_R [V]
HZ6B3	5.7	6.0	<40	>2 (5µA)
HZ6C1	5.8	6.1		
HZ6C2	6.0	6.3		
HZ6C3	6.1	6.4		
HZ7A1	6.3	6.6	<15	>3.5
HZ7A2	6.4	6.7		
HZ7A3	6.6	6.9		
HZ7B1	6.7	7.0		
HZ7B2	6.9	7.2		
HZ7B3	7.0	7.3		
HZ7C1	7.2	7.6		
HZ7C2	7.3	7.7		
HZ7C3	7.5	7.9		
HZ9A1	7.7	8.1	<20	>5
HZ9A2	7.9	8.3		
HZ9A3	8.1	8.5		
HZ9B1	8.3	8.7		
HZ9B2	8.5	8.9		
HZ9B3	8.7	9.1		
HZ9C1	8.9	9.3		
HZ9C2	9.1	9.5		
HZ9C3	9.3	9.7		
HZ11A1	9.5	9.9	<25	>7.5
HZ11A2	9.7	10.1		
HZ11A3	9.9	10.3		
HZ11B1	10.2	10.6		
HZ11B2	10.4	10.8		
HZ11B3	10.7	11.1		
HZ11C1	10.9	11.3		
HZ11C2	11.1	11.6		
HZ11C3	11.4	11.9		
HZ12A1	11.6	12.1	<35	>9.5
HZ12A2	11.9	12.4		
HZ12A3	12.2	12.7		
HZ12B1	12.4	12.9		
HZ12B2	12.6	13.1		
HZ12B3	12.9	13.4		
HZ12C1	13.2	13.7		
HZ12C2	13.5	14.0		
HZ12C3	13.8	14.3		
HZ15-1	14.1	14.7	<40	>11

Maximum ratings

Type Typ	Zener voltage Zener-Spannung I_Z = 5 mA		Dynamic resistance Diff. Widerstand r_{zj} [Ω] at f = 1 kHz	Reverse volt. Sperrspanng. I_R = 1 µA
	V_{zmin} [V]	V_{zmax} [V]	I_Z = 5 mA	V_R [V]
HZ15-2	14.5	15.1	<40	>11
HZ15-3	14.9	15.5		
HZ16-1	15.3	15.9	<45	>12
HZ16-2	15.7	16.5		
HZ16-3	16.3	17.1		
HZ18-1	16.9	17.7	<55	>13
HZ18-2	17.5	18.3		
HZ18-3	18.1	19.0		
HZ20-1	18.8	19.7	<60	>15
HZ20-2	19.5	20.4		
HZ20-3	20.2	21.1		
HZ22-1	20.9	21.9	<65	>17
HZ22-2	21.6	22.6		
HZ22-3	22.3	23.3		
HZ24-1	22.9	24.0	<70	>19
HZ24-2	23.6	24.7		
HZ24-3	24.3	25.5		
HZ27-1	25.2	26.6	<80	>21
HZ27-2	26.2	27.6		
HZ27-3	27.2	28.6		
HZ30-1	28.2	29.6	<100	>23
HZ30-2	29.2	30.6		
HZ30-3	30.2	31.6		
HZ33-1	31.2	32.6	<120	>25
HZ33-2	32.2	33.6		
HZ33-3	33.2	34.6		
HZ36-1	34.2	35.7	<140	>27
HZ36-2	35.2	36.8		
HZ36-3	36.4	38.0		