

HZ-P Series

Silicon Planar Zener Diode for Voltage Controller & Voltage Limiter

REJ03G0236-0700 Rev.7.00 Nov 12, 2007

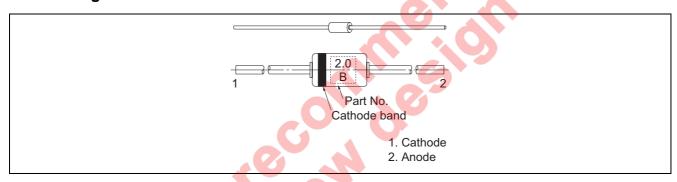
Features

- Wide zener voltage range from 1.88 V through 40 V provide flexible application.
- Glass package DO-41 structure ensures high reliability.

Ordering Information

Part No.	Cathode Band	Package Name	Package Code	
HZ-P Series	Black	DO-41	GRZZ0002ZA-A	

Pin Arrangement



Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

Item	Symbol	Value	Unit	
Power dissipation	Pd	1.0	W	
Junction temperature	Tj	175	°C	
Storage temperature	Tstg	−55 to +175	°C	

Electrical Characteristics

 $(Ta = 25^{\circ}C)$

		Zener Voltage		Reverse Current		Dynamic Resistance		
				Test	Test			Test
		V _z (V)* ¹	Condition	I _R (μA)	Condition	r _d (Ω)	Condition
Туре	Grade	Min	Max	I _Z (mA)	Max	V _R (V)	Max	I _Z (mA)
HZ2.0	BP	1.88	2.12	40	200	0.5	25	40
	CP	2.00	2.24					
HZ2.2	BP	2.08	2.33	40	200	0.7	20	40
	CP	2.20	2.45					
HZ2.4	BP	2.28	2.56	40	200	1.0	15	40
	CP	2.40	2.70					
HZ2.7	BP	2.5	2.9	40	200	1.0	15	40
	CP	2.7	3.1					
HZ3.0	BP	2.8	3.2	40	100	1.0	15	40
	CP	3.0	3.4					
HZ3.3	BP	3.1	3.5	40	80	1.0	15	40
	CP	3.3	3.7					
HZ3.6	BP	3.4	3.8	40	60	1.0	15	40
	CP	3.6	4.0	3	1			
HZ3.9	BP	3.7	4.1	40	40	1.0	15	40
	CP	3.9	4.4					
HZ4.3	BP	4.0	4.5	40	20	1.0	15	40
	CP	4.3	4.8					
HZ4.7	BP	4.4	4.9	40	20	1.0	10	40
	CP	4.7	5.2					
HZ5.1	BP	4.8	5.4	40	20	1.0	8	40
	CP	5.1	5.7					
HZ5.6	BP	5.3	6.0	40	20	1.5	8	40
	CP	5.6	6.3					
HZ6.2	BP	5.8	6.6	40	20	3.0	6	40
	CP	6.2	7.0					
HZ6.8	BP	6.4	7.2	40	20	3.5	6	40
	СР	6.8	7.7					
HZ7.5	BP	7.0	7.9	40	20	4.0	4	40
	СР	7.5	8.4					
HZ8.2	BP	7.7	8.7	40	20	5.0	4	40
	СР	8.2	9.3					
HZ9.1	BP	8.5	9.6	40	20	6.0	6	40
	СР	9.1	10.2					
HZ10	BP	9.4	10.6	40	10	7.0	6	40
	СР	10.0	11.2					

Note: 1. Tested with DC.

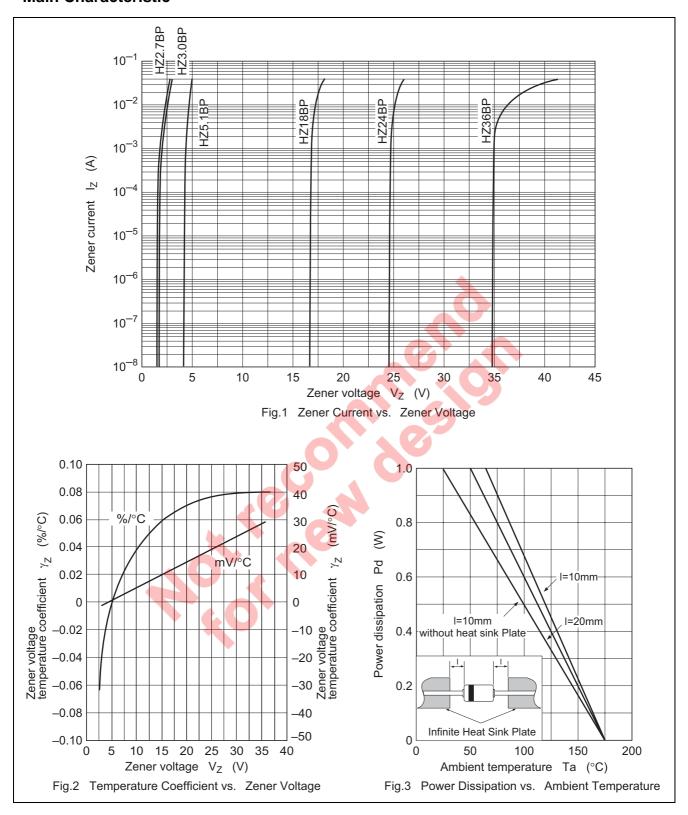
 $(Ta = 25^{\circ}C)$

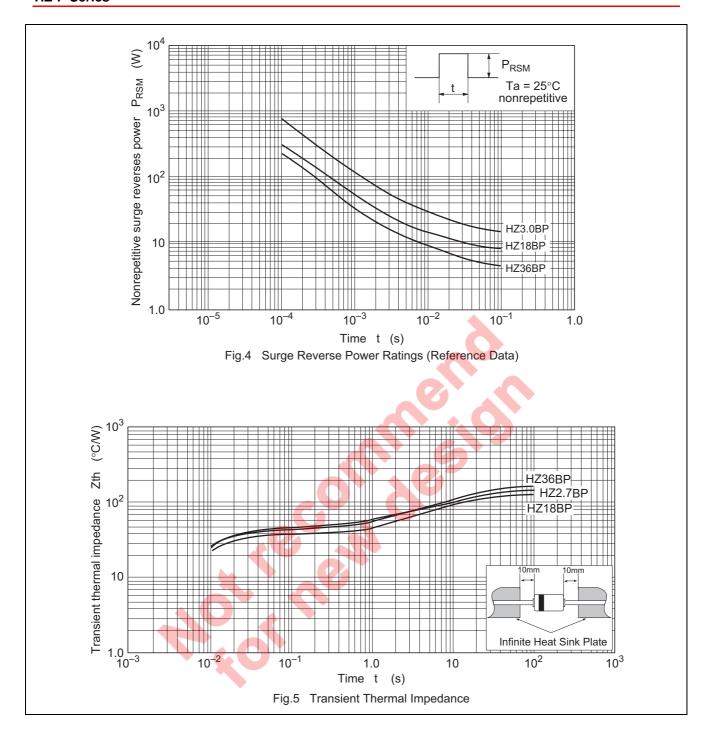
		Zener Voltage		Reverse Current		Dynamic Resistance		
		V _z (V)* ¹	Test Condition	I _R (μA)	Test Condition	r _d (Ω)	Test Condition
Type	Grade	Min	Max	I _Z (mA)	Max	V _R (V)	Max	I _Z (mA)
HZ11	BP	10.4	11.6	20	10	8.0	8	20
	CP	11.0	12.3					
HZ12	BP	11.4	12.6	20	10	9.0	8	20
	CP	12.0	13.5					
HZ13	BP	12.4	14.1	20	10	10.0	10	20
	CP	13.3	15.0					
HZ15	BP	13.8	15.6	20	10	11.0	10	20
	CP	14.7	16.5					
HZ16	BP	15.3	17.1	20	10	12.0	12	20
	СР	16.2	18.3					
HZ18	BP	16.8	19.1	20	10	13.0	12	20
	СР	18.0	20.3					
HZ20	BP	18.8	21.2	20	10	15.0	14	20
	СР	20.0	22.4					
HZ22	BP	20.8	23.3	10	10	17.0	14	10
	СР	22.0	24.5					
HZ24	BP	22.8	25.6	10	10	19.0	16	10
	СР	24.0	27.6			4.00		
HZ27	BP	25.1	28.9	10	10	21.0	16	10
	СР	27.0	30.8					
HZ30	BP	28.0	32.0	10	10	23.0	18	10
	СР	30.0	34.0					
HZ33	BP	31.0	35.0	10	10	25.0	18	10
	СР	33.0	37.0					
HZ36	BP	34.0	38.0	10	10	27.0	20	10
	CP	36.0	40.0					

Notes: 1. Tested with DC.

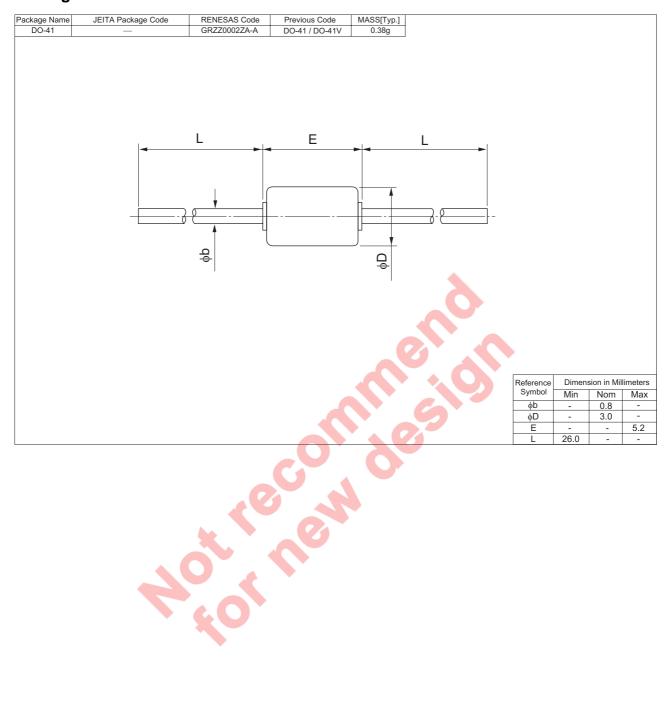
^{2.} Part No. is as follows; HZ2.0BP, HZ2.0CP, • • • HZ36BP, HZ36CP.

Main Characteristic





Package Dimensions



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