

# **HZ Series**

Silicon Planar Zener Diode for Stabilized Power Supply

### Features

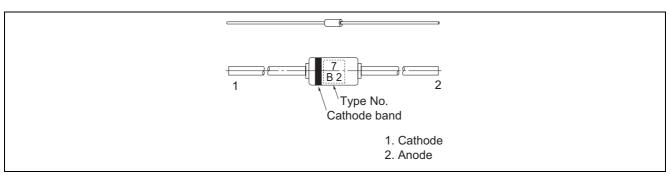
- Low leakage, low zener impedance and maximum power dissipation of 500 mW are ideally suited for stabilized power supply, etc.
- Wide spectrum from 1.6 V through 38 V of zener voltage provide flexible application.

### .DataSheet4U.com

### **Ordering Information**

Part No.	Part No. Mark		Package Code		
HZ Series	Type No.	DO-35	GRZZ0002ZB-A		

### **Pin Arrangement**



# **Absolute Maximum Ratings**

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

Item	Symbol	Value	Unit
Power dissipation	Pd	500	mW
Junction temperature	Tj	175	°C
Storage temperature	Tstg	-55 to +175	°C

# **Electrical Characteristics**

			Zener Volt	age	Reverse Current		Dynamic Resistance	
eet4U.com		V <sub>z</sub> (V)* <sup>1</sup>		Test Condition	Ι <sub>R</sub> (μΑ)	Test Condition	r <sub>d</sub> (Ω)	Test Condition
Туре	Grade	Min	Max	I <sub>z</sub> (mA)	Max	V <sub>R</sub> (V)	Max	I <sub>z</sub> (mA)
HZ2	A1	1.6	1.8	5	25	0.5	100	5
	A2	1.7	1.9	-	_0			
	A3	1.8	2.0	1				
	B1	1.9	2.1	5	5	0.5	100	5
	B2	2.0	2.2					
	B3	2.1	2.3					
	C1	2.2	2.4					
	C2	2.3	2.5					
	C3	2.4	2.6					
HZ3	A1	2.5	2.7	5	5	0.5	100	5
	A2	2.6	2.8					
	A3	2.7	2.9					
B1 B2 B3	B1	2.8	3.0					
	B2	2.9	3.1					
	B3	3.0	3.2					
	C1	3.1	3.3					
	C2	3.2	3.4					
	C3	3.3	3.5					
HZ4	A1	3.4	3.6	5	5	1.0	100	5
	A2	3.5	3.7					
	A3	3.6	3.8					
	B1	3.7	3.9					
	B2	3.8	4.0					
	B3	3.9	4.1					
	C1	4.0	4.2					
	C2	4.1	4.3	_				
	C3	4.2	4.4					
HZ5	A1	4.3	4.5	5	5	1.5	100	5
	A2	4.4	4.6					
	A3	4.5	4.7	4				
	B1	4.6	4.8	4				
	B2	4.7	4.9	4				
	B3	4.8	5.0					

Note: 1. Tested with DC.

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

			Zener Volta	age	Reverse Current Dynamic			Resistance	
				Test		Test		Test	
		V <sub>Z</sub> (V)* <sup>1</sup>		Condition	I <sub>R</sub> (μΑ)	Condition	r <sub>d</sub> (Ω)	Condition	
Туре	Grade	Min	Max	Iz (mA)	Max	V <sub>R</sub> (V)	Max	I <sub>z</sub> (mA)	
HZ5	C1	4.9	5.1	5	5	1.5	100	5	
	C2	5.0	5.2						
	C3	5.1	5.3						
HZ6	A1	5.2	5.5	5	5	2.0	40	5	
	A2	5.3	5.6						
	A3	5.4	5.7						
	B1	5.5	5.8						
	B2	5.6	5.9						
et4U.com	B3	5.7	6.0						
	C1	5.8	6.1						
	C2	6.0	6.3						
	C3	6.1	6.4						
HZ7	A1	6.3	6.6	5	1	3.5	15	5	
	A2	6.4	6.7						
	A3	6.6	6.9						
	B1	6.7	7.0						
	B2	6.9	7.2						
	B3	7.0	7.3						
	C1	7.2	7.6						
	C2	7.3	7.7						
	C3	7.5	7.9						
HZ9	A1	7.7	8.1	5	1	5.0	20	5	
	A2	7.9	8.3						
	A3	8.1	8.5						
	B1	8.3	8.7						
	B2	8.5	8.9						
	B3	8.7	9.1						
	C1	8.9	9.3						
	C2	9.1	9.5						
	C3	9.3	9.7						
HZ11	A1	9.5	9.9	5	1	7.5	25	5	
	A2	9.7	10.1						
	A3	9.9	10.3						
	B1	10.2	10.6						
	B2	10.4	10.8						
	B3	10.7	11.1						
	C1	10.9	11.3						
	C2	11.1	11.6	]					
	C3	11.4	11.9						

Note: 1. Tested with DC.

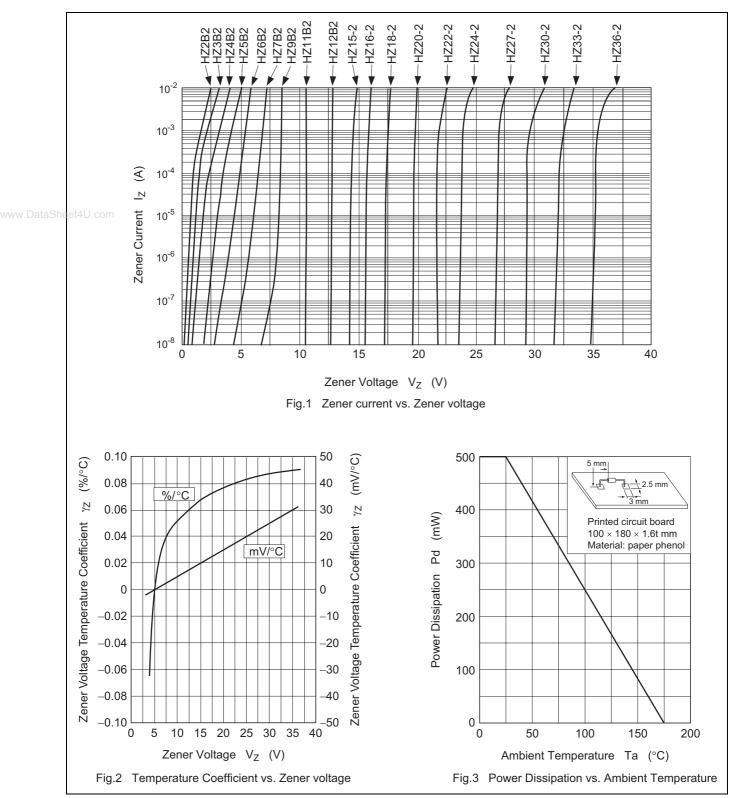
 $(Ta = 25^{\circ}C)$ 

		Zener Voltage			Revers	e Current	Dynamic Resistance	
		Vz (V)* <sup>1</sup>		Test	Ι <sub>R</sub> (μΑ)	Test Condition	r <sub>d</sub> (Ω)	Test Condition
				Condition				
Туре	Grade	Min	Max	Iz (mA)	Max	V <sub>R</sub> (V)	Max	lz (mA)
HZ12	A1	11.6	12.1	5	1	9.5	35	5
	A2	11.9	12.4					
	A3	12.2	12.7					
	B1	12.4	12.9					
	B2	12.6	13.1					
	B3	12.9	13.4					
	C1	13.2	13.7					
	C2	13.5	14.0					
et4U.com	C3	13.8	14.3					
HZ15	1	14.1	14.7	5	1	11.0	40	5
	2	14.5	15.1					
	3	14.9	15.5					
HZ16	1	15.3	15.9	5	1	12.0	45	5
	2	15.7	16.5					
	3	16.3	17.1					
HZ18	1	16.9	17.7	5	1	13.0	55	5
	2	17.5	18.3					
	3	18.1	19.0					
HZ20	1	18.8	19.7	2	1	15.0	60	2
	2	19.5	20.4					
	3	20.2	21.1					
HZ22	1	20.9	21.9	2	1	17.0	65	2
	2	21.6	22.6					
	3	22.3	23.3					
HZ24	1	22.9	24.0	2	1	19.0	70	2
	2	23.6	24.7					
	3	24.3	25.5	1				
HZ27	1	25.2	26.6	2	1	21.0	80	2
	2	26.2	27.6	1				
	3	27.2	28.6	1				
HZ30	1	28.2	29.6	2	1	23.0	100	2
	2	29.2	30.6	1				
	3	30.2	31.6	1				
HZ33	1	31.2	32.6	2	1	25.0	120	2
	2	32.2	33.6	1				
	3	33.2	34.6	1				
HZ36	1	34.2	35.7	2	1	27.0	140	2
	2	35.3	36.8	1				
	3	36.4	38.0	1				

Notes: 1. Tested with DC.

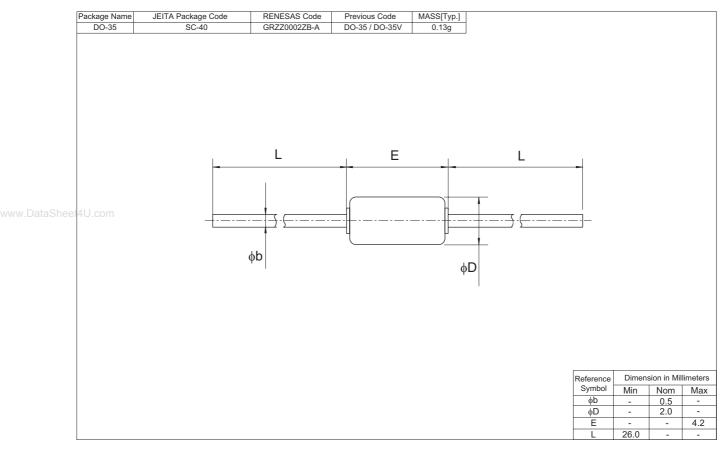
2. Type No. is as follows; HZ2B1, HZ2B2, HZ36-3.

## **Main Characteristic**



RENESAS

## **Package Dimensions**



### RenesasTechnology Corp. Sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan



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Renesas Technology America, Inc. 450 Holger Way, San Jose, CA 95134-1368, U.S.A Tel: <1> (408) 382-7500, Fax: <1> (408) 382-7501

Renesas Technology Europe Limited Dukes Meadow, Millboard Road, Bourne End, Buckinghamshire, SL8 5FH, U.K. Tel: <44> (1628) 585-100, Fax: <44> (1628) 585-900

Renesas Technology (Shanghai) Co., Ltd. Unit 204, 205, AZIACenter, No.1233 Lujiazui Ring Rd, Pudong District, Shanghai, China 200120 Tel: <86> (21) 5877-1818, Fax: <86> (21) 6887-7898

Renesas Technology Hong Kong Ltd. 7th Floor, North Tower, World Finance Centre, Harbour City, 1 Canton Road, Tsimshatsui, Kowloon, Hong Kong Tel: <852> 2265-6688, Fax: <852> 2730-6071

Renesas Technology Taiwan Co., Ltd. 10th Floor, No.99, Fushing North Road, Taipei, Taiwan Tel: <886> (2) 2715-2888, Fax: <886> (2) 2713-2999

Renesas Technology Singapore Pte. Ltd. 1 Harbour Front Avenue, #06-10, Keppel Bay Tower, Singapore 098632 Tel: <65> 6213-0200, Fax: <65> 6278-8001

Renesas Technology Korea Co., Ltd. Kukje Center Bldg. 18th Fl., 191, 2-ka, Hangang-ro, Yongsan-ku, Seoul 140-702, Korea Tel: <82> (2) 796-3115, Fax: <82> (2) 796-2145

Renesas Technology Malaysia Sdn. Bhd Unit 906, Block B, Menara Amcorp, Amcorp Trade Centre, No.18, Jalan Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia Tel: <603> 7955-9390, Fax: <603> 7955-9510