

HZU Series

Silicon Planar Zener Diode for Stabilizer

R07DS0423EJ1000 Rev.10.00 Jun 06, 2011

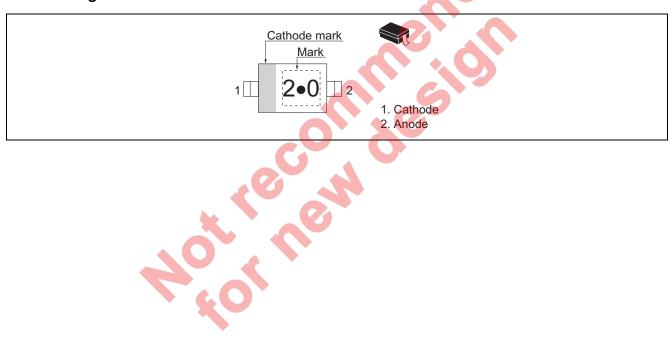
Features

- These diodes are delivered taped.
- Ultra small Resin Package (URP) is suitable for surface mount design.

Ordering Information

Part No	Laser Mark	Package Name	Package Code	Taping Abbreviation (Quantity)
HZU Series TRF	Let to Mark Code	URP	STSP0002ZA-A	TRF (3,000pcs / reel)

Pin Arrangement



Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Power dissipation	Pd* ¹	200	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Note: 1. See Fig. 3.

Electrical Characteristics

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

		Zener Voltag		ge	Reverse Current		Dynamic Resistance	
				Test		Test		Test
		V _z (V)* ¹	Condition	I _R (μ A)	Condition	r_d (Ω)	Condition
Type	Grade	Min	Max	I _Z (mA)	Max	V _R (V)	Max	I _Z (mA)
HZU2.0	В	1.90	2.20	5	120	0.5	100	5
HZU2.2	В	2.10	2.40	5	120	0.7	100	5
HZU2.4	В	2.30	2.60	5	120	1.0	100	5
HZU2.7	B1	2.50	2.75	5	120	1.0	110	5
	B2	2.65	2.90					
HZU3.0	B1	2.80	3.05	5	50	1.0	120	5
	B2	2.95	3.20					
HZU3.3	B1	3.10	3.35	5	20	1.0	130	5
	B2	3.25	3.50					
HZU3.6	B1	3.40	3.65	5	10	1.0	130	5
	B2	3.55	3.80					
HZU3.9	B1	3.70	3.97	5	10	1.0	130	5
	B2	3.87	4.10					
HZU4.3	B1	4.01	4.21	5	10	1.0	130	5
	B2	4.15	4.34					
	B3	4.28	4.48	O				
HZU4.7	B1	4.42	4.61	5	10	1.0	130	5
	B2	4.55	4.75	•				
	B3	4.69	4.90					
HZU5.1	B1	4.84	5.04	5	5	1.5	130	5
	B2	4.98	5.20					
	B3	5.14	5.37					
HZU5.6	B1	5.31	5.55	5	5	2.5	80	5
	B2	5.49	5.73					
	B3	5.67	5.92					
HZU6.2	B1	5.86	6.12	5	2	3.0	50	5
	B2	6.06	6.33					
	B3	6.26	6.53					
HZU6.8	B1	6.47	6.73	5	2	3.5	30	5
	B2	6.65	6.93					
	B3	6.86	7.14					
HZU7.5	B1	7.06	7.36	5	2	4.0	30	5
	B2	7.28	7.60					
	B3	7.52	7.84					

Note: 1. Tested with pulse ($P_W = 40 \text{ ms}$)

		Zener Voltage		age	Reverse Current		Dynamic Resistance		
				Test		Test		Test	
			V)* ¹	Condition	I _R (μ A)	Condition	r_d (Ω)	Condition	
Туре	Grade	Min	Max	I _Z (mA)	Max	V _R (V)	Max	I _Z (mA)	
HZU8.2	B1	7.76	8.10	5	2	5.0	30	5	
	B2	8.02	8.36						
	B3	8.28	8.64						
HZU9.1	B1	8.56	8.93	5	2	6.0	30	5	
	B2	8.85	9.23						
	B3	9.15	9.55						
HZU10	B1	9.45	9.87	5	2	7.0	30	5	
	B2	9.77	10.21						
	В3	10.11	10.55						
HZU11	B1	10.44	10.88	5	2	8.0	30	5	
	B2	10.76	11.22						
	В3	11.10	11.56						
HZU12	B1	11.42	11.90	5	2	9.0	35	5	
	B2	11.74	12.24						
	В3	12.08	12.60						
HZU13	B1	12.47	13.03	5	2	10.0	35	5	
	B2	12.91	13.49						
	В3	13.37	13.96			A 0			
HZU15	B1	13.84	14.46	5	2	11.0	40	5	
	B2	14.34	14.98						
	В3	14.85	15.52						
HZU16	B1	15.37	16.01	5	2	12.0	40	5	
	B2	15.58	16.51						
	В3	16.35	17.09	O 4					
HZU18	B1	16.94	17.70	5	2	13.0	45	5	
	B2	17.56	18.35						
	В3	18.21	19.03						
HZU20	B1	18.86	19.70	5	2	15.0	50	5	
	B2	19.52	20.39						
	В3	20.21	21.08						
HZU22	B1	20.88	21.77	5	2	17.0	55	5	
	B2	21.54	22.47						
	B3	22.23	23.17						
HZU24	B1	22.93	23.96	5	2	19.0	60	5	
	B2	23.72	24.78						
	В3	24.54	25.57						
HZU27	В	25.10	28.90	2	2	21.0	70	2	
HZU30	В	28.00	32.00	2	2	23.0	80	2	
HZU33	В	31.00	35.00	2	2	25.0	80	2	
HZU36	В	34.00	38.00	2	2	27.0	90	2	
		oulse (Pw = 4							

Note: 1. Tested with pulse ($P_W = 40 \text{ ms}$).

Mark Code

Туре	Grade	Mark No.
HZU2.0	В	2 · 0
HZU2.2	В	2 · 2
HZU2.4	В	2 · 4
HZU2.7	B1	2 · 7
	B2	2 · 7
HZU3.0	B1	3 · 0
	B2	3 · 0
HZU3.3	B1	3 · 3
	B2	3 · 3
HZU3.6	B1	3 · 6
	B2	3 · 6
HZU3.9	B1	3 · 9
	B2	3 · 9
HZU4.3	B1	4 · 3
	B2	4 · 3
	В3	4 · 3
HZU4.7	B1	4 · 7
	B2	4 · 7
	В3	4 · 7
HZU5.1	B1	5 · 1
	B2	5 · 1
	В3	5 · 1
HZU5.6	B1	5 · 6
	B2	5 · 6
	В3	5 · 6

Type	Grade	Mark No.			
HZU6.2	B1	6 · 2			
	B2	6 · 2			
	В3	6 · 2			
HZU6.8	B1	6 · 8			
	B2	6 · 8			
	В3	6 · 8			
HZU7.5	B1	7 · 5			
	B2	7 · 5			
	В3	7 · 5			
HZU8.2	B1	8 · 2			
	B2	8 · 2			
	B3	8 · 2			
HZU9.1	B1	9 · 1			
	B2	9 · 1			
	B3	9 · 1			
HZU10	B1	10.			
	B2	10.			
	В3	10.			
HZU11	B1	11.			
	B2	11.			
	В3	11.			
HZU12	B1	12.			
	B2	12.			
	B3	12.			

	I	
Туре	Grade	Mark No.
HZU13	B1	13.
	B2	13.
	В3	13.
HZU15	B1	15.
	B2	15.
	В3	15.
HZU16	B1	16.
	B2	16.
	В3	16.
HZU18	B1	18.
	B2	18.
	В3	18.
HZU20	B1	20.
	B2	20.
	В3	20.
HZU22	B1	22.
	B2	22.
	В3	22.
HZU24	B1	24.
	B2	24.
	В3	24.
HZU27	В	27.
HZU30	В	30.
HZU33	В	33.
HZU36	В	36.

Notes: 1. Example of Marking (1) One grade type (B)

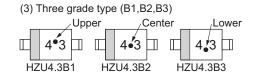


(2) Two grade type (B1,B2)

3•0

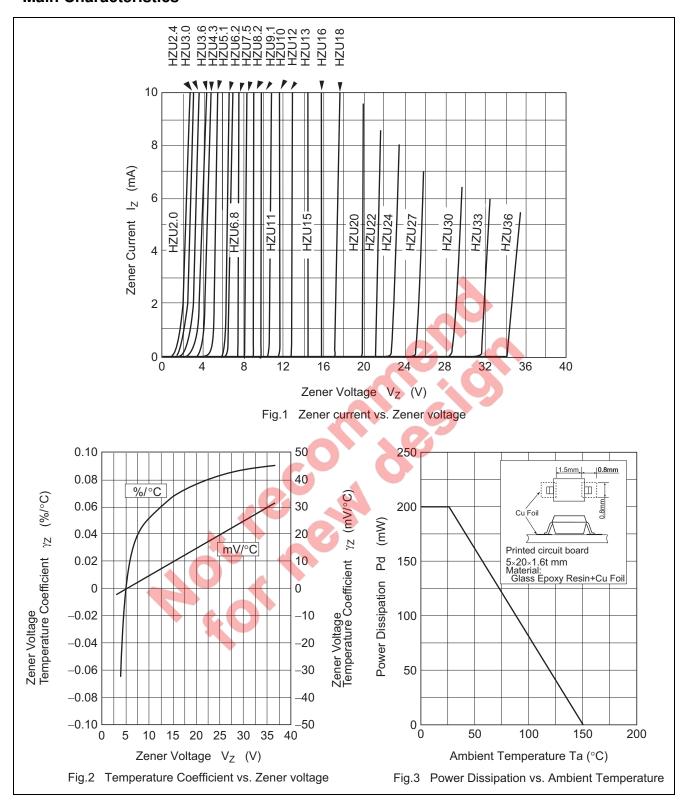
HZU3.0B1

HZU3.0B2

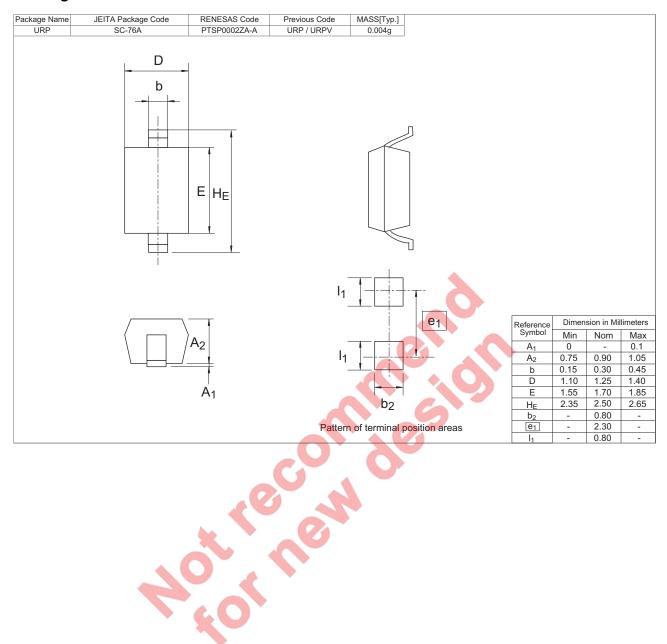


- 2. Type No. is as follows; HZU2.0B, HZU2.2B, ••• HZU36B. (B grade)
- 3. Type No. is as follows; HZU2.7B1, HZU2.7B2, ••• HZU24B3. (B 1, B2, B3 grade)

Main Characteristics



Package Dimensions



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