

DZD2.0 to 24

Silicon Planar Type

0.2W Zener Diodes

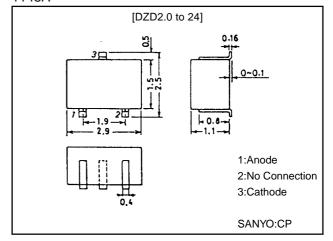
Features

- · Reference voltage use.
- · Votlage regulators use.
- · Power dissipation : P=200mW. · Voltage range: ±2.5% subdivided.
- · High reliability due to planar type.
- · Ideally suited for use in hybrid ICs because of ultra small package.

Package Dimensions

unit:mm

1148A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Power Dissipation	Р		200	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Zener voltage VZ will be subdivided into X, Y, Z at your request.

Type No.	Zener Characteristics								Reverse Current	
		Zei	ner Voltage V _Z	[V]*		Dynamic Resistance r _d [Ω] f=1kHz		Test Current	I _R	Test Voltage V _R
	min	max	Sub- division	min	max	typ	max	[mA]	[μΑ]	[V]
DZD2.0	1.85	2.15	Х	1.85	2.05	60	100	5	120	1.0
			Z	1.95	2.15	60	100	5	120	1.0
DZD2.2	2.05	2.38	Х	2.05	2.26	65	100	5	120	1.0
			Z	2.16	2.38	65	100	5	120	1.0
DZD2.4	2.28	2.60	X	2.28	2.50	70	100	5	120	1.0
			Z	2.40	2.60	70	100	5	120	1.0
DZD2.7	2.50	2.90	X	2.50	2.75	80	110	5	120	1.0
			Z	2.65	2.90	80	110	5	120	1.0
DZD3.0	2.80	3.20	X	2.80	3.05	85	120	5	50	1.0
			Z	2.95	3.20	85	120	5	50	1.0
DZD3.3	3.10	3.50	Х	3.10	3.35	90	130	5	20	1.0
			Z	3.25	3.50	90	130	5	20	1.0

Electrical Connection

(Top View)

1:Anode

2:No Connection

3:Cathode

Continued on next page. *: t=30ms

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Electrical Characteristics at Ta = 25°C

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Type No.				Zener Cha			Reverse Current			
Туре но.					Dynamic Resistance Test			reverse	Test	
		Zer	ner Voltage V _Z	[V]*	$r_{d}[\Omega]$		Current		Voltage	
						f=1kHz		Curront	IR	Voltage
	min	max	division	min	max	typ	max	[mA]	[μA]	[V]
DZD3.6	3.40	3.80	Х	3.40	3.65	90	130	5	10	1.0
	• • • • • • • • • • • • • • • • • • • •		Z	3.55	3.80	90	130	5	10	1.0
DZD3.9	3.70	4.10	Х	3.70	3.97	85	130	5	10	1.0
			Z	3.87	4.10	85	130	5	10	1.0
DZD4.3	4.00	4.50	Х	4.00	4.23	80	130	5	5	1.0
			Υ	4.13	4.35	80	130	5	5	1.0
			Z	4.25	4.50	80	130	5	5	1.0
DZD4.7	4.40	4.90	Х	4.40	4.63	60	120	5	5	1.0
			Υ	4.53	4.76	60	120	5	5	1.0
			Z	4.66	4.90	60	120	5	5	1.0
DZD5.1	4.80	5.40	Х	4.80	5.07	35	70	5	1.0	1.5
			Υ	4.97	5.24	35	70	5	1.0	1.5
			Z	5.14	5.40	35	70	5	1.0	1.5
DZD5.6	5.30	6.00	Х	5.30	5.63	15	40	5	1.0	2.5
D2D0.0	0.00	0.00	Y	5.43	5.81	15	40	5	1.0	2.5
			Z	5.61	6.00	15	40	5	1.0	2.5
DZD6.2	5.80	6.60	X	5.80	6.20	8.0	30	5	1.0	3.0
DZD0.Z	0.00	0.00	Y	6.00	6.39	8.0	30	5	1.0	3.0
			Z	6.19	6.60	8.0	30	5	1.0	3.0
DZD6.8	6.40	7.20	X	6.40	6.80	7.0	25	5	0.5	5.0
0.40	7.20	Y	6.60	7.02	7.0	25	5	0.5	5.0	
			Z	6.82	7.20	7.0	25	5	0.5	5.0
DZD7.5	7.00	7.90	X	7.00	7.43	6.8	23	5	0.5	6.0
DZD1.0	7.00	7.50	Y	7.00	7.43	6.8	23	5	0.5	6.0
			Z	7.46	7.90	6.8	23	5	0.5	6.0
DZD8.2	7.70	8.70	X	7.70	8.16	5.0	20	5	0.5	
DZD0.2	7.70	0.70	Y	7.76	8.43	5.0	20	5	0.5	6.5 6.5
			Z	8.23	8.70	5.0	20	5	0.5	6.5
DZD9.1	8.50	9.60	X		9.00	4.0	18		0.5	7.0
DZD9.1	8.50	9.60	Y	8.50 8.80	9.00			5		7.0
			Z	9.10	9.60	4.0 4.0	18 18	5	0.5 0.5	7.0
DZD10	9.40	10.60	X					5		
DZD10	9.40	10.60	Y	9.40 9.73	9.93 10.26	4.0	15	5	0.5	8.0
			Z	10.06	11.60	4.0 4.0	15	5	0.5 0.5	8.0 8.0
D7D11	10.40	11.60	X				15	5		
DZD11	10.40	11.60	X Y	10.40 10.73	10.98	4.0	15	5	0.5	8.5 8.5
			11.06	11.26	4.0	15	5 5	0.5		
D7D40	11 40	12.60	Z X		11.60	4.0	15		0.5	8.5
DZD12	11.40	12.60		11.40	11.93	3.0	15	5	0.5	9.0
			Y Z	11.73	12.26	3.0	15	5	0.5	9.0
D7D42	10.40	14.40		12.06	12.60	3.0	15	5	0.5	9.0
DZD13 12.4	12.40	14.10	X	12.40	13.08	3.0	15	5	0.5	10.0
			Y	12.88	13.57	3.0	15	5	0.5	10.0
D7D45	40.00	45.00	Z	13.37	14.10	3.0	15	5	0.5	10.0
DZD15	13.80	15.60	X	13.80	14.63	3.0	15	5	0.5	11.0
			Y	14.33	15.11	3.0	15	5	0.5	11.0
D7D/-		4	Z	14.81	15.60	3.0	15	5	0.5	11.0
DZD16	15.30	17.10	X	15.30	16.10	3.0	18	5	0.5	12.0
			Y	15.80	16.60	3.0	18	5	0.5	12.0
			Z	16.30	17.10	3.0	18	5	0.5	12.0

*: t=30ms Continued on next page.

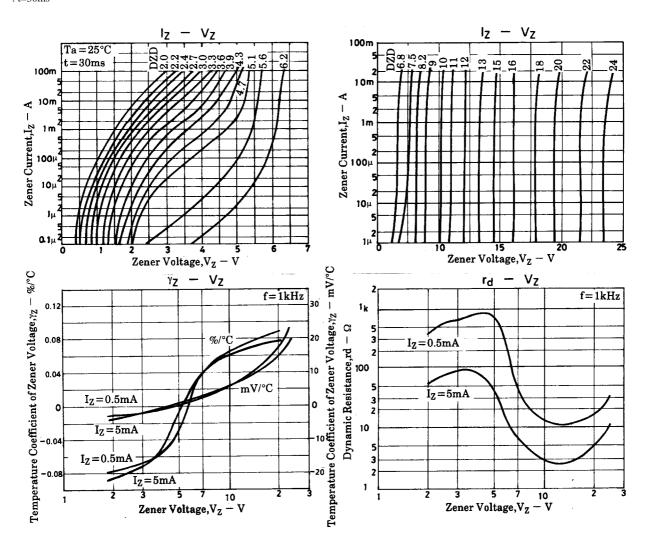
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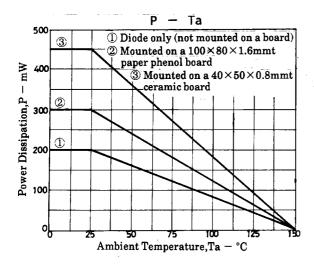
Electrical Characteristics at Ta = 25°C

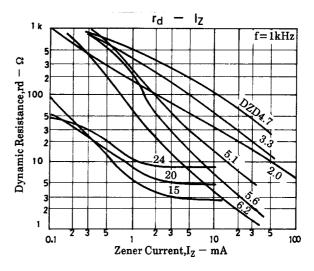
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Type No.	Zener Characteristics								Reverse Current	
		;	Zener Voltage	Dynamic Resistance r _d [Ω]		Test Current	I _R	Test Voltage		
			Sub-			f=1kHz				VR
	min	max	division	min	max	typ	max	[mA]	[μA]	[V]
DZD18	16.80	19.10	Х	16.80	17.76	4.0	20	5	0.5	14.0
			Y	17.46	18.43	4.0	20	5	0.5	14.0
			Z	18.13	19.10	4.0	20	5	0.5	14.0
DZD20	18.80	21.20	Х	18.80	19.78	5.0	25	5	0.5	15.0
			Y	19.48	20.46	5.0	25	5	0.5	15.0
			Z	20.16	21.20	5.0	25	5	0.5	15.0
DZD22	20.80	23.30	Х	20.80	21.88	6.0	30	5	0.5	17.0
			Y	21.48	22.56	6.0	30	5	0.5	17.0
			Z	22.16	23.30	6.0	30	5	0.5	17.0
DZD24	22.80	25.60	Х	22.80	24.11	8.0	40	5	0.5	19.0
			Y	23.61	24.92	8.0	40	5	0.5	19.0
			Z	24.42	25.60	8.0	40	5	0.5	19.0

*: t=30ms







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