



GZB2.0 to 36

Silicon Planar Type

1.0W Zener Diode

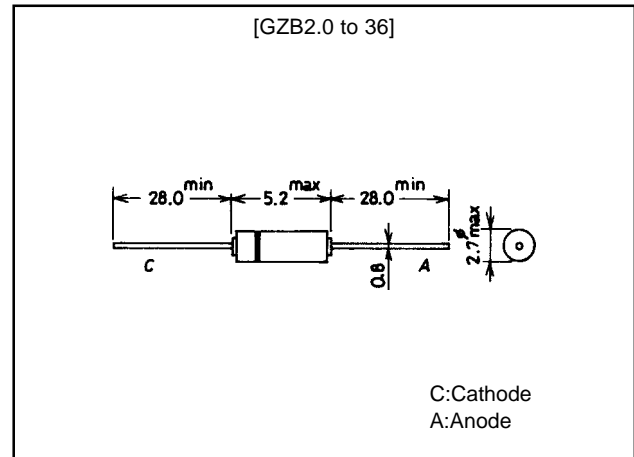
Features

- Glass sleeve structure.
- Voltage regulator, surge absorber applications.
- Power dissipation : P=1.0mW.
- Zener voltage : $V_Z=2.0$ to 36 V.
- Small-sized package : JEDEC DO-41

Package Dimensions

unit:mm

1134



Specifications

Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Power Dissipation	P		1	W
Junction Temperature	T_J		175	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +175	$^\circ\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$

Type No.	Zener Characteristics							Reverse Current	
	Zener Voltage, V_Z [V]				Dynamic Resistance		Measured Current	I_R	Measured Voltage V_R
	(t=30ms)				r_d [Ω]				
	B		C		$f=1\text{kHz}$		[mA]	[μA]	[V]
min	max	min	max	typ	max				
GZB2.0	1.88	2.12	2.00	2.24	15	25	40	200	0.5
GZB2.2	2.08	2.33	2.20	2.45	12	20	40	200	0.7
GZB2.4	2.28	2.56	2.4	2.7	12	20	40	200	1
GZB2.7	2.5	2.9	2.7	3.1	9	15	40	200	1
GZB3.0	2.8	3.2	3.0	3.4	9	15	40	100	1
GZB3.3	3.1	3.5	3.3	3.7	9	15	40	80	1
GZB3.6	3.4	3.8	3.6	4.0	9	15	40	60	1
GZB3.9	3.7	4.1	3.9	4.4	9	15	40	40	1
GZB4.3	4.0	4.5	4.3	4.8	9	15	40	20	1
GZB4.7	4.4	4.9	4.7	5.2	7	10	40	20	1
GZB5.1	4.8	5.4	5.1	5.7	5	8	40	20	1
GZB5.6	5.3	6.0	5.6	6.3	5	8	40	20	1.5
GZB6.2	5.8	6.6	6.2	7.0	3	6	40	20	3
GZB6.8	6.4	7.2	6.8	7.7	3	6	40	20	3.5

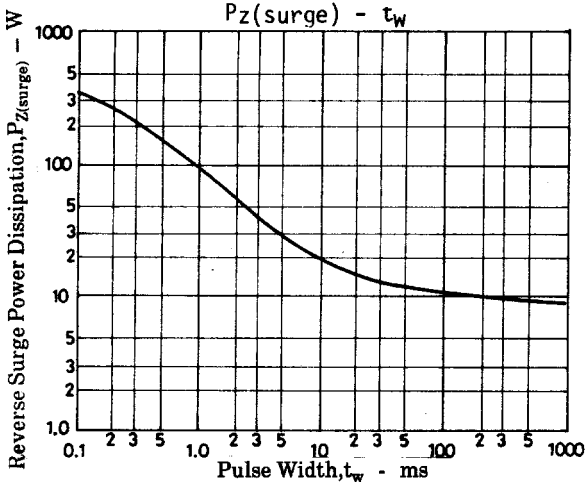
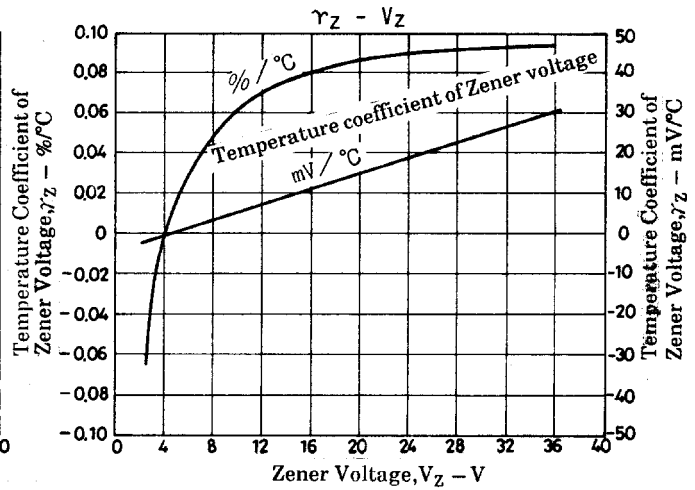
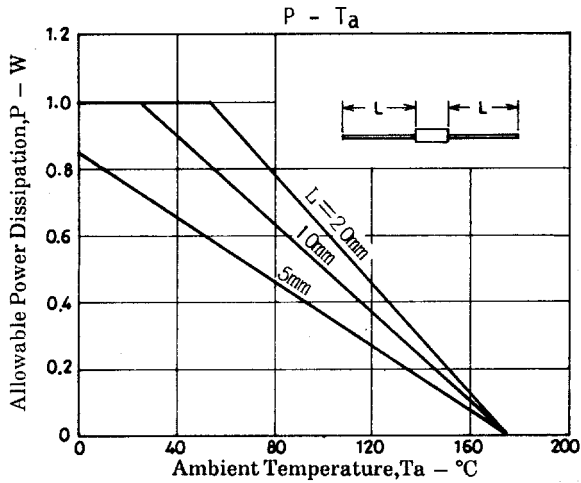
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Electrical Characteristics at $T_a = 25^\circ\text{C}$

Type No.	Zener Characteristics						Reverse Current		
	Zener Voltage, V_Z [V]				Dynamic Resistance r_d [Ω] $f=1\text{kHz}$		Measured Current [mA]	I_R [μA]	Measured Voltage V_R [V]
	(t=30ms)				typ	max			
	B	C	min	max					
GZB7.5	7.0	7.9	7.5	8.4	2	4	40	20	4
GZB8.2	7.7	8.7	8.2	9.3	2	4	40	20	5
GZB9.1	8.5	9.6	9.1	10.2	3	6	40	20	6
GZB10	9.4	10.6	10.0	11.2	3	6	40	10	7
GZB11	10.4	11.6	11.0	12.3	5	8	20	10	8
GZB12	11.4	12.6	12.0	13.5	5	8	20	10	9
GZB13	12.4	14.1	13.3	15.0	7	10	20	10	10
GZB15	13.8	15.6	14.7	16.5	7	10	20	0	11
GZB16	15.3	17.1	16.2	18.3	8	12	20	10	12
GZB18	16.8	19.1	18.0	20.3	8	12	20	10	13
GZB20	18.8	21.2	20.0	22.4	9	14	20	10	15
GZB22	20.8	23.3	22.0	24.5	9	14	10	10	17
GZB24	22.8	25.6	24.0	27.6	9	16	10	10	19
GZB27	25.1	28.9	27.0	30.8	9	16	10	10	21
GZB30	28.0	32.0	30.0	34.0	10	18	10	10	23
GZB33	31.0	35.0	33.0	37.0	10	18	10	10	25
GZB36	34.0	38.0	36.0	40.0	12	20	10	10	27



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