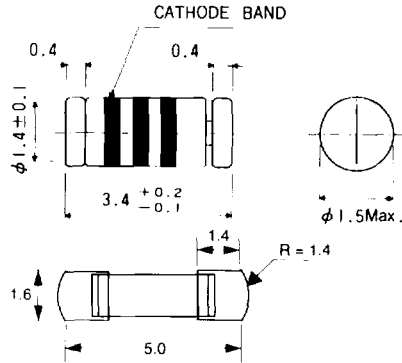


These glass-sealed Zener diodes are suitable for high density surface mounting on printed circuit boards. Because of their cylindrical shape they can also be mounted flat. They can be used to regulate voltages between 2.3 and 24 V.

Dimensions (Units : mm)



Features

- available in LLDS (LL-34) package
- part marking, 3 bands, colors shown in following table

Applications

- voltage regulating

3band color coding

Part no.	Band 1	Band 2	Band 3	Part no.	Band 1	Band 2	Band 3
RLZ5221B	Black	Brown	Green	RLZ5237B	Brown	Purple	Green
RLZ5222B	Black	Red		RLZ5238B	Brown	Grey	
RLZ5223B	Black	Orange		RLZ5239B	Brown	White	
RLZ5224B	Black	Yellow		RLZ5240B	Red	Black	
RLZ5225B	Black	Green		RLZ5241B	Red	Brown	
RLZ5226B	Black	Blue		RLZ5242B	Red	Red	
RLZ5227B	Black	Purple		RLZ5243B	Red	Orange	
RLZ5228B	Black	Grey		RLZ5244B	Red	Yellow	
RLZ5229B	Black	White		RLZ5245B	Red	Green	
RLZ5230B	Brown	Black		RLZ5246B	Red	Blue	
RLZ5231B	Brown	Brown		RLZ5247B	Red	Purple	
RLZ5232B	Brown	Red		RLZ5248B	Red	Grey	
RLZ5233B	Brown	Orange		RLZ5249B	Red	White	
RLZ5234B	Brown	Yellow		RLZ5250B	Orange	Black	
RLZ5235B	Brown	Green		RLZ5251B	Orange	Brown	
RLZ5236B	Brown	Blue		RLZ5252B	Orange	Red	

Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit
Power dissipation	P_d	500	mW
Junction temperature	T_j	175	$^\circ\text{C}$
Storage temperature	T_{stg}	-65 ~ +175	$^\circ\text{C}$

Electrical characteristics (unless otherwise noted, $T_a = 25^\circ\text{C}$)

Part no.	Zener voltage subdivision ¹			Operating resistance ²		Rising operating resistance		Reverse current		Temp coeff θ_{V_z} (%/°C)
	V_Z (V)		I_Z (mA)	Z_Z (Ω) Max	I_Z (mA)	Z_{ZK} (Ω) Max	I_Z (mA)	I_R (μA) Max	V_R (V)	
	Min	Max								
RLZ5221B	2.28	2.52	20	30	20	1200	0.25	100	0.1	-0.085
RLZ5222B	2.38	2.63	20	30	20	1250	0.25	100	1.0	-0.085
RLZ5223B	2.57	2.84	20	30	20	1300	0.25	75	1.0	-0.080
RLZ5224B	2.66	2.94	20	30	20	1400	0.25	75	1.0	-0.080
RLZ5225B	2.85	3.15	20	29	20	1600	0.25	50	1.0	-0.075
RLZ5226B	3.14	3.47	20	28	20	1600	0.25	25	1.0	-0.070
RLZ5227B	3.42	3.78	20	24	20	1700	0.25	15	1.0	-0.065
RLZ5228B	3.71	4.10	20	23	20	1900	0.25	10	1.0	-0.060
RLZ5229B	4.09	4.52	20	22	20	2000	0.25	5.0	1.0	± 0.055
RLZ5230B	4.47	4.94	20	19	20	1900	0.25	5.0	2.0	± 0.030
RLZ5231B	4.85	5.36	20	17	20	1600	0.25	5.0	2.0	± 0.030
RLZ5232B	5.32	5.88	20	11	20	1600	0.25	5.0	3.0	+0.038
RLZ5233B	5.70	6.30	20	7.0	20	1600	0.25	5.0	3.5	+0.038
RLZ5234B	5.89	6.51	20	7.0	20	1000	0.25	5.0	4.0	+0.045
RLZ5235B	6.46	7.14	20	5.0	20	750	0.25	3.0	5.0	+0.050
RLZ5236B	7.13	7.88	20	6.0	20	500	0.25	3.0	6.0	+0.058
RLZ5237B	7.79	8.61	20	8.0	20	500	0.25	3.0	6.5	+0.062
RLZ5238B	8.27	9.14	20	8.0	20	600	0.25	3.0	6.5	+0.065
RLZ5239B	8.65	9.56	20	10	20	600	0.25	3.0	7.0	+0.068
RLZ5240B	9.50	10.50	20	17	20	600	0.25	3.0	8.0	+0.075
RLZ5241B	10.45	11.55	20	22	20	600	0.25	2.0	8.4	+0.076
RLZ5242B	11.40	12.60	20	30	20	600	0.25	1.0	9.1	+0.077
RLZ5243B	12.35	13.65	9.5	13	9.5	600	0.25	0.5	9.9	+0.079
RLZ5244B	13.30	14.70	9.0	15	9.0	600	0.25	0.1	10.0	+0.082
RLZ5245B	14.25	15.75	8.5	16	8.5	600	0.25	0.1	11.0	+0.082
RLZ5246B	15.20	16.80	7.8	17	7.8	600	0.25	0.1	12.0	+0.083
RLZ5247B	16.15	17.85	7.4	19	7.4	600	0.25	.01	13.0	+0.084
RLZ5248B	17.10	18.90	7.0	21	7.0	600	0.25	0.1	14.0	+0.085
RLZ5249B	18.05	19.95	6.6	23	6.6	600	0.25	0.1	14.0	+0.086
RLZ5250B	19.00	21.00	6.2	25	6.2	600	0.25	0.1	15.0	+0.086
RLZ5251B	20.90	23.10	5.6	29	5.6	600	0.25	0.1	17.0	+0.087
RLZ5252B	22.80	25.20	5.2	33	5.2	600	0.25	0.1	18.0	+0.088

¹ The Zener voltage subdivision (V_Z) is measured in a steady state.

² The operating resistance (Z_Z and Z_{ZK}) is measured by superimposing a minute alternating current in the regulated current (I_Z).205

Electrical characteristic curve

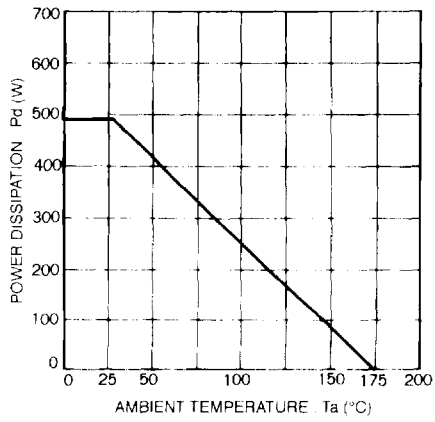


Figure 1