

Zener diode

RLZ5200B Series

*This product is marketed only in countries other than Japan.

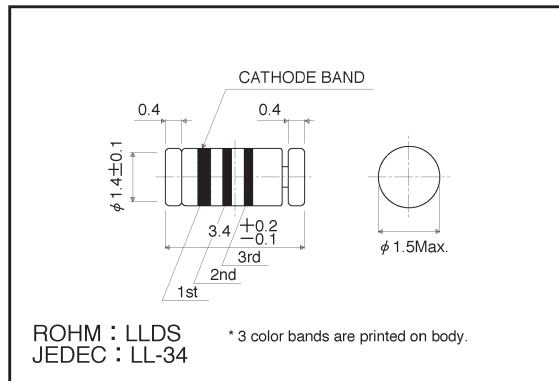
●Applications

Constant voltage control

●Features

- 1) Small surface mounting type. (LL-34)
- 2) High reliability.

●External dimensions (Units: mm)



●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Power dissipation	P	500	mW
Junction temperature	Tj	175	°C
Storage temperature	Tstg	-65~+175	°C

●Cathode band colors

Type	1st color band	2nd color band	3rd color band	Type	1st color band	2nd color band	3rd color band
RLZ5231B	Brown	Brown	Light Green	RLZ5242B	Red	Red	Light Green
RLZ5232B	Brown	Red		RLZ5243B	Red	Orange	
RLZ5233B	Brown	Orange		RLZ5244B	Red	Yellow	
RLZ5234B	Brown	Yellow		RLZ5245B	Red	Green	
RLZ5235B	Brown	Green		RLZ5246B	Red	Blue	
RLZ5236B	Brown	Blue		RLZ5247B	Red	Purple	
RLZ5237B	Brown	Purple		RLZ5248B	Red	Gray	
RLZ5238B	Brown	Gray		RLZ5249B	Red	White	
RLZ5239B	Brown	White		RLZ5250B	Orange	Black	
RLZ5240B	Red	Black		RLZ5251B	Orange	Brown	
RLZ5241B	Red	Brown	RLZ5252B	Orange	Red		

●Electrical characteristics (Ta = 25°C)

Type	Zener voltage			Operating resistance		Rising operating resistance		Reverse current		Temperature coefficient
	V _Z (V)			Z _Z (Ω)	I _Z (mA)	Z _{ZK} (Ω)	I _Z (mA)	I _R (μA)	V _R (V)	θ V _Z (% / °C)
	Min.	Max.	I _Z (mA)	Max.		Max.		Max.		
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	0.1	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 (V_Z) is measured under normal conditions.(2) The operating resistance (Z_Z, Z_{ZK}) is measured by superimposing a small alternating current on the regulated current (I_Z).

● Electrical characteristic curve (Ta=25°C unless specified otherwise.)

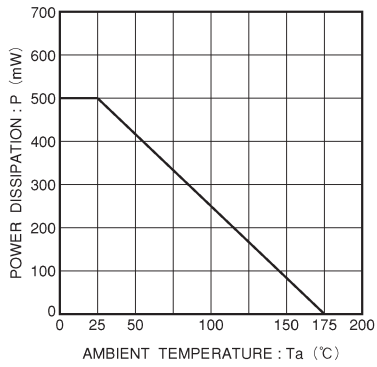


Fig.1 Derating curve