



RECTRON SEMICONDUCTOR TECHNICAL SPECIFICATION

**CMBZ5221B
THRU
CMBZ5260B**

5% SOT-23 SURFACE MOUNT ZENER DIODE

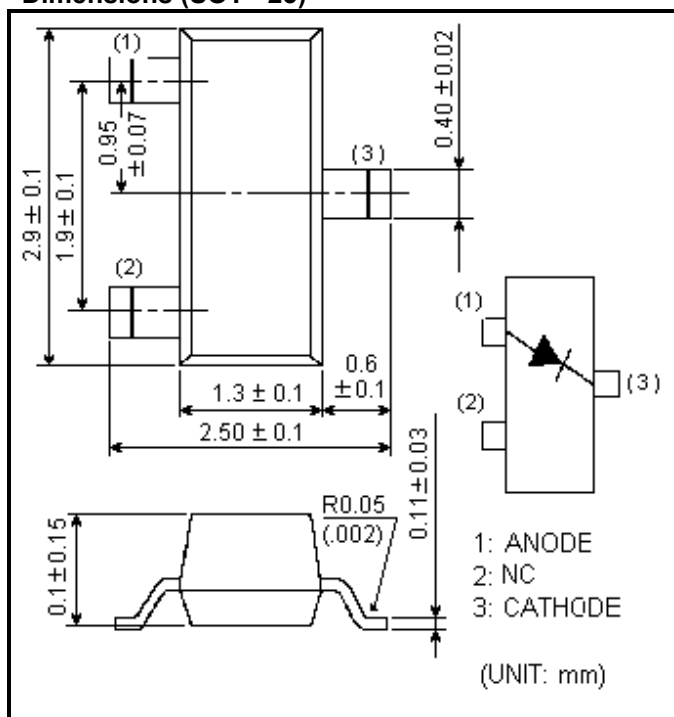
Absolute Maximum Ratings (Ta=25°C)

Items	Symbol	Ratings	Unit
Power Dissipation	P	300	mW
Tolerance		5	%
Voltage Range	Vz	2.4 - 43	V
Forward Voltage @ If = 10 mA	Vf	0.9	V
Rep. Peak Fwd. Current	IFRM	250	mA
Junction Temp.	Tj	-55 to 125	°C
Storage Temp.	Tstg	-55 to 150	°C

Mechanical Data

Items	Materials
Package	SOT-23
Lead Frame	42 Alloy
Lead Finish	Solder Plating
Bond Wire	Au
Mold Resin	Epoxy
Chip	Silicon

Dimensions (SOT - 23)



Electrical Characteristics (Ta=25°C)

Type No. CMBZ	Zener Voltage Vz @ Izt (V)	Test Curr. Izt (mA)	Max Zener Impedance		Max Reverse Leakage		Temp COEFF dvz (%/°C)
			Rz @ Izt (Ω)	Rz @ Izt=0.25mA (Ω)	IR (μA)	VR (V)	
5221B	2.4	20	30	1200	100	1.0	-0.085
5222B	2.5	20	30	1250	100	1.0	-0.085
5223B	2.7	20	30	1300	75	1.0	-0.080
5224B	2.8	20	30	1400	75	1.0	-0.080
5225B	3.0	20	29	1600	50	1.0	-0.075
5226B	3.3	20	28	1600	25	1.0	-0.070
5227B	3.6	20	24	1700	15	1.0	-0.65
5228B	3.9	20	23	1900	10	1.0	-0.060
5229B	4.3	20	22	2000	5	1.0	+/- 0.055
5230B	4.7	20	19	1900	5	2.0	+/- 0.030
5231B	5.1	20	17	1600	5	2.0	+/- 0.030
5232B	5.6	20	11	1600	5	3.0	+/- 0.038

CMBZ52 series

Type No. CMBZ	Zener Voltage Vz @ Izt (V)	Test Curr. Izt (mA)	Max Zener Impedance		Max Reverse Leakage		Temp COEFF dvz (%/°C)
			Rz @ Izt (Ω)	Rz @ Izt=0.25mA (Ω)	IR (μA)	VR (V)	
5233B	6.0	20	7	1600	5	3.5	+/- 0.038
5234B	6.2	20	7	1000	5	4.0	+ 0.045
5235B	6.8	20	5	750	3	5.6	+ 0.050
5236B	7.5	20	6	500	3.0	6.0	+ 0.058
5237B	8.2	20	8	500	3.0	6.5	+ 0.062
5238B	8.7	20	8	600	3.0	6.5	+ 0.065
5239B	9.1	20	10	600	3.0	7.0	+ 0.068
5240B	10	20	17	600	3.0	8.0	+ 0.075
5241B	11	20	22	600	2.0	8.4	+ 0.076
5242B	12	20	30	600	1.0	9.1	+ 0.077
5243B	13	9.5	13	600	0.5	9.9	+ 0.079
5244B	14	9.0	15	600	0.1	10	+ 0.082
5245B	15	8.5	16	600	0.1	11	+ 0.082
5246B	16	7.8	17	600	0.1	12	+ 0.083
5247B	17	7.4	19	600	0.1	13	+ 0.084
5248B	18	7.0	21	600	0.1	14	+ 0.085
5249B	19	6.6	23	600	0.1	14	+ 0.086
5250B	20	6.2	25	600	0.1	15	+ 0.087
5251B	22	5.6	29	600	0.1	17	+ 0.088
5252B	24	5.2	33	600	0.1	18	+ 0.089
5253B	25	5.0	35	600	0.1	19	+ 0.090
5254B	27	4.6	41	600	0.1	21	+ 0.091
5255B	28	4.5	44	600	0.1	21	+ 0.091
5256B	30	4.2	49	600	0.1	23	+ 0.092
5257B	33	3.8	58	700	0.1	25	+ 0.093
5258B	36	3.4	70	700	0.1	27	+ 0.094
5259B	39	3.2	80	800	0.1	30	+ 0.095
5260B	43	3.0	93	900	0.1	33	+ 0.095