

**5% SOT-23 SURFACE MOUNT ZENER DIODE**

**CMBZ5221B  
THRU  
CMBZ5260B**

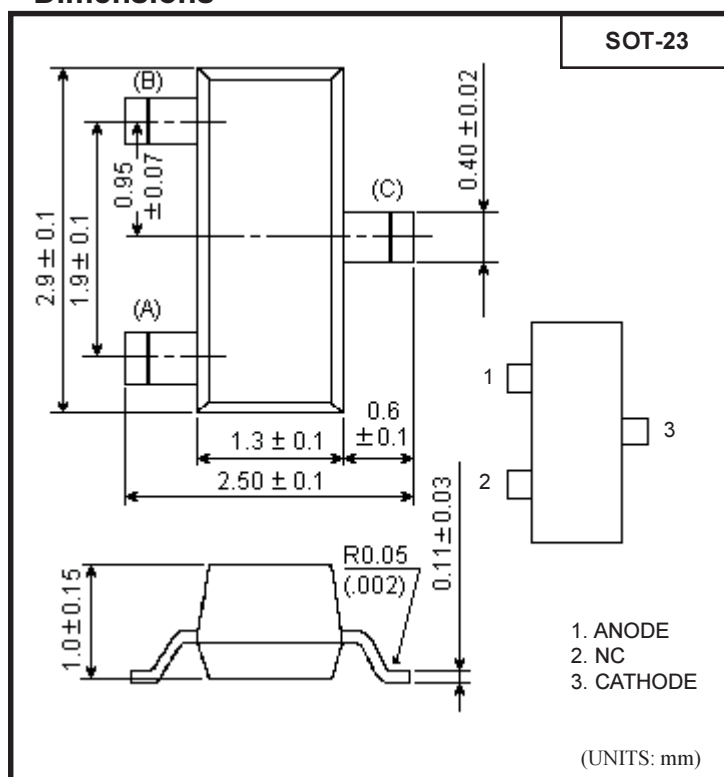
**Absolute Maximun Ratings (Ta=25°C)**

Items	Symbol	Ratings	Unit
Power Dissipation	$P_{TOT}$	300	mW
Tollarance		5	%
Voltage Range	$V_Z$	2.4 - 43	V
Foward Voltage @ $I_F = 10mA$	$V_F$	250	V
Rep. Oeak Fwd. Current	$I_{FRM}$	250	mA
Junction Temp.	$T_J$	-55 to 125	°C
Storage Temp.	$T_{STG}$	-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**



**Electrical Characteristics (Ta=25°C)**

TYPE	ZENER VOLTAGE		MAX ZENER IMPEDANCE		MAX ZENER IMPEDANCE $I_{zt} = 1.0mA$	MAXIMUM REVERSE CURRENT		TEMP. COEFF.
	$V_Z(V)$	$I_{zt}(mA)$	$R_z(ohms)$	$I_{zt}(mA0)$	$R_z(ohms)$	$V_R(V)$	$I_R(\mu A)$	$\frac{dv_z}{dT}(\%/^{\circ}C)$
CMBZ5221B	2.4	20	30	20	1200	1.0	100	-0.085
CMBZ5222B	2.5	20	30	20	1250	1.0	100	-0.085
CMBZ5223B	2.7	20	30	20	1300	1.0	75	-0.080
CMBZ5224B	2.8	20	30	20	1400	1.0	75	-0.080
CMBZ5225B	3.0	20	29	20	1600	1.0	50	-0.075
CMBZ5226B	3.3	20	28	20	1600	1.0	25	-0.070
CMBZ5227B	3.6	20	24	20	1700	1.0	15	-0.065
CMBZ5228B	3.9	20	23	20	1900	1.0	10	-0.060
CMBZ5229B	4.3	20	22	20	2000	1.0	5	+/-0.055
CMBZ5230B	4.7	20	19	20	1900	2.0	5	+/-0.030
CMBZ5231B	5.1	20	17	20	1600	2.0	5	+/-0.030

TYPE	ZENER VOLTAGE		MAX ZENER IMPEDANCE		MAX ZENER IMPEDANCE I <sub>zt</sub> = 1.0mA	MAXIMUM REVERSE CURRENT		TEMP. COEFF.
	V <sub>z</sub> (V)	I <sub>zt</sub> (mA)	R <sub>z</sub> (ohms)	I <sub>zt</sub> (mA)	R <sub>z</sub> (ohms)	V <sub>R</sub> (V)	I <sub>R</sub> (uA)	dv <sub>z</sub> (%/ °C)
CMBZ5232B	5.6	20	11	20	1600	3.0	5.0	+/-0.038
CMBZ5233B	6.0	20	7	20	1600	3.5	5.0	+/-0.038
CMBZ5234B	6.2	20	7	20	1000	4.0	5.0	+0.045
CMBZ5235B	6.8	20	7	20	750	5.6	3.0	+0.050
CMBZ5236B	7.5	20	6	20	500	6.0	3.0	+0.058
CMBZ5237B	8.2	20	8	20	500	6.5	3.0	+0.062
CMBZ5238B	8.7	20	8	20	600	6.5	3.0	+0.065
CMBZ5239B	9.1	20	10	20	600	7.0	3.0	+0.068
CMBZ5240B	10	20	17	20	600	8.0	3.0	+0.075
CMBZ5241B	11	20	22	20	600	8.4	2.0	+0.076
CMBZ5242B	12	20	30	20	600	9.1	1.0	+0.077
CMBZ5243B	13	9.5	13	9.5	600	9.9	0.5	+0.079
CMBZ5244B	14	9.0	15	9.0	600	10	0.1	+0.082
CMBZ5245B	15	8.5	16	8.5	600	11	0.1	+0.082
CMBZ5246B	16	7.8	17	8.5	600	12	0.1	+0.083
CMBZ5247B	17	7.4	19	7.4	600	13	0.1	+0.084
CMBZ5248B	18	7.0	21	7.0	600	14	0.1	+0.085
CMBZ5249B	19	6.6	23	6.6	600	14	0.1	+0.086
CMBZ5250B	20	6.2	25	6.2	600	15	0.1	+0.087
CMBZ5251B	22	5.6	29	5.6	600	17	0.1	+0.088
CMBZ5252B	24	5.2	33	5.2	600	18	0.1	+0.089
CMBZ5253B	25	5.0	35	5.0	600	19	0.1	+0.090
CMBZ5254B	27	4.6	41	4.6	600	21	0.1	+0.091
CMBZ5255B	28	4.5	44	4.5	600	21	0.1	+0.091
CMBZ5256B	30	4.2	49	4.2	600	23	0.1	+0.092
CMBZ5257B	33	3.8	58	3.8	700	25	0.1	+0.093
CMBZ5258B	36	3.4	70	3.4	700	27	0.1	+0.094
CMBZ5259B	39	3.2	80	3.2	800	30	0.1	+0.095
CMBZ5260B	43	3.0	93	3.0	900	33	0.1	+0.095