

CLL5221B THRU CLL5267B

**SURFACE MOUNT
SILICON ZENER DIODE
2.4 VOLTS THRU 75 VOLTS
500mW, 5% TOLERANCE**



SOD-80 CASE

Central™

Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CLL5221B Series Silicon Zener Diode is a high quality voltage regulator designed for use in industrial, commercial, entertainment, and computer applications.

MARKING CODE: CATHODE BAND

MAXIMUM RATINGS:

Power Dissipation (@ $T_A=50^\circ\text{C}$)

Operating and Storage Temperature

Tolerance "B"

Tolerance "C"

Tolerance "D"

SYMBOL

P_D

T_J, T_{stg}

500

-65 to +200

±5

±2

±1

UNIT

mW

°C

%

%

%

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$), $V_F=1.25\text{V MAX @ } I_F=200\text{mA}$ FOR ALL TYPES.

TYPE NO.	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT I_{ZT}	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT		MAXIMUM ZENER VOLTAGE TEMPERATURE COEFFICIENT θ_{VZ}
	MIN	NOM	MAX		$Z_{ZT} @ I_{ZT}$		$I_R @ V_R$			
	VOLTS	VOLTS	VOLTS		Ω	Ω			μA	
CLL5221B*	2.280	2.4	2.520	20	30	1200	0.25	100	1.0	-0.085
CLL5222B*	2.375	2.5	2.625	20	30	1250	0.25	100	1.0	-0.085
CLL5223B*	2.565	2.7	2.835	20	30	1300	0.25	75	1.0	-0.080
CLL5224B*	2.660	2.8	2.940	20	30	1400	0.25	75	1.0	-0.080
CLL5225B	2.850	3.0	3.150	20	29	1600	0.25	50	1.0	-0.075
CLL5226B	3.135	3.3	3.465	20	28	1600	0.25	25	1.0	-0.070
CLL5227B	3.420	3.6	3.780	20	24	1700	0.25	15	1.0	-0.065
CLL5228B	3.705	3.9	4.095	20	23	1900	0.25	10	1.0	-0.060
CLL5229B	4.085	4.3	4.515	20	22	2000	0.25	5.0	1.0	±0.055
CLL5230B	1.465	4.7	4.935	20	19	1900	0.25	5.0	2.0	±0.030
CLL5231B	4.845	5.1	5.355	20	17	1600	0.25	5.0	2.0	±0.030
CLL5232B	5.320	5.6	5.880	20	11	1600	0.25	5.0	3.0	+0.038
CLL5233B	5.700	6.0	6.300	20	7.0	1600	0.25	5.0	3.5	+0.038
CLL5234B	5.890	6.2	6.510	20	7.0	1000	0.25	5.0	4.0	+0.045
CLL5235B	6.460	6.8	7.140	20	5.0	750	0.25	3.0	5.0	+0.050
CLL5236B	7.125	7.5	7.875	20	6.0	500	0.25	3.0	6.0	+0.058
CLL5237B	7.790	8.2	8.610	20	8.0	500	0.25	3.0	6.5	+0.062
CLL5238B	8.265	8.7	9.135	20	8.0	600	0.25	3.0	6.5	+0.065
CLL5239B	8.645	9.1	9.555	20	10	600	0.25	3.0	7.0	+0.068
CLL5240B	9.500	10	10.50	20	17	600	0.25	3.0	8.0	+0.075
CLL5241B	10.45	11	11.55	20	22	600	0.25	2.0	8.4	+0.076
CLL5242B	11.40	12	12.60	20	30	600	0.25	1.0	9.1	+0.077
CLL5243B	12.35	13	13.65	9.5	13	600	0.25	0.5	9.9	+0.079
CLL5244B	13.30	14	14.70	9.0	15	600	0.25	0.1	10	+0.082

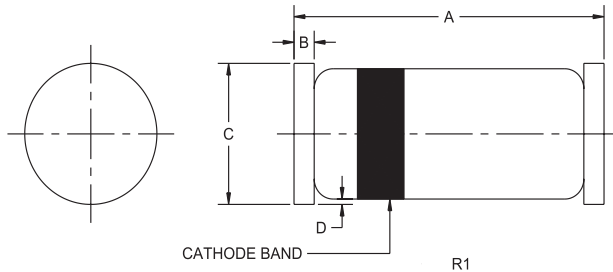
*Available on special order only, please consult factory.

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TYPE NO.	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT I_{ZT}	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT		MAXIMUM ZENER VOLTAGE TEMPERATURE COEFFICIENT
	MIN	NOM	MAX		$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$	θ_{VZ}	
	VOLTS	VOLTS	VOLTS	mA	Ω	Ω	mA	μA	VOLTS	%/°C
CLL5245B	14.25	15	15.75	8.5	16	600	0.25	0.1	11	+0.082
CLL5246B	15.20	16	16.80	7.8	17	600	0.25	0.1	12	+0.083
CLL5247B	16.15	17	17.85	7.4	19	600	0.25	0.1	13	+0.084
CLL5248B	17.10	18	18.90	7.0	21	600	0.25	0.1	14	+0.085
CLL5249B	18.05	19	19.95	6.6	23	600	0.25	0.1	14	+0.086
CLL5250B	19.00	20	21.00	6.2	25	600	0.25	0.1	15	+0.086
CLL5251B	20.90	22	23.10	5.6	29	600	0.25	0.1	17	+0.087
CLL5252B	22.80	24	25.20	5.2	33	600	0.25	0.1	18	+0.088
CLL5253B	23.75	25	26.25	5.0	35	600	0.25	0.1	19	+0.089
CLL5254B	25.65	27	28.35	4.6	41	600	0.25	0.1	21	+0.090
CLL5255B	26.60	28	29.40	4.5	44	600	0.25	0.1	21	+0.091
CLL5256B	28.50	30	31.50	4.2	49	600	0.25	0.1	23	+0.091
CLL5257B	21.35	33	34.65	3.8	58	700	0.25	0.1	25	+0.092
CLL5258B	34.20	36	37.80	3.4	70	700	0.25	0.1	27	+0.093
CLL5259B	37.05	39	40.95	3.2	80	800	0.25	0.1	30	+0.094
CLL5260B	40.85	43	45.15	3.0	93	900	0.25	0.1	33	+0.095
CLL5261B	44.65	47	49.35	2.7	105	100	0.25	0.1	36	+0.095
CLL5262B	48.45	51	53.55	2.5	125	1100	0.25	0.1	39	+0.096
CLL5263B	53.20	56	58.80	2.2	150	1300	0.25	0.1	43	+0.096
CLL5264B	57.00	60	63.00	2.1	170	1400	0.25	0.1	46	+0.097
CLL5265B	58.90	62	65.10	2.0	185	1400	0.25	0.1	47	+0.097
CLL5266B	64.60	68	71.40	1.8	230	1600	0.25	0.1	52	+0.097
CLL5267B	71.25	75	78.75	1.7	270	1700	0.25	0.1	56	+0.098

SOD-80 CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.130	0.146	3.30	3.71
B	0.016		0.41	
C (DIA)	0.051	0.067	1.30	1.70
D	-	0.004	-	0.10

SOD-80 (REV:R1)

MARKING CODE: CATHODE BAND

R3 (13-November 2002)