

CLL4099 THRU CLL4125

**SURFACE MOUNT
LOW NOISE SILICON ZENER DIODES
6.8 VOLTS THRU 47 VOLTS
500mW, 5% TOLERANCE**



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CLL4099 Series types are high quality Silicon Zener Diodes designed for low leakage, low current and low noise applications.

MARKING: CATHODE BAND



SOD-80 CASE

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

Power Dissipation
Operating and Storage Junction Temperature

SYMBOL

P_D
 T_J, T_{stg}

UNIT

500
-65 to +200
mW
 $^\circ\text{C}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$) $V_F=1.0\text{V MAX @ } I_F=200\text{mA}$ (FOR ALL TYPES)

TYPE NO.	ZENER VOLTAGE			TEST CURRENT	MAXIMUM ZENER IMPEDANCE	MAX REVERSE LEAKAGE CURRENT		MAXIMUM ZENER CURRENT	MAXIMUM NOISE DENSITY
	$V_Z @ I_{ZT}$					I_{ZT}	$I_R @ V_R$		
	MIN	NOM	MAX	$Z_{ZT} @ I_{ZT}$	I_R		V_R		
	V	V	V			Ω		μA	V
CLL4099*	6.460	6.8	7.140	250	200	10	5.2	35.0	40
CLL4100*	7.125	7.5	7.865	250	200	10	5.7	31.8	40
CLL4101*	7.790	8.2	8.610	250	200	1.0	6.3	29.0	40
CLL4102*	8.265	8.7	9.135	250	200	1.0	6.7	27.4	40
CLL4103*	8.645	9.1	9.555	250	200	1.0	7.0	26.2	40
CLL4104*	9.500	10	10.50	250	200	1.0	7.6	24.8	40
CLL4105*	10.45	11	11.55	250	200	0.05	8.5	21.6	40
CLL4106*	11.40	12	12.60	250	200	0.05	9.2	20.4	40
CLL4107*	12.35	13	13.65	250	200	0.05	9.9	19.0	40
CLL4108*	13.30	14	14.70	250	200	0.05	10.7	17.5	40
CLL4109*	14.25	15	15.75	250	100	0.05	11.4	16.3	40
CLL4110*	15.20	16	16.80	250	100	0.05	12.2	15.4	40
CLL4111*	16.15	17	17.85	250	100	0.05	13.0	14.5	40
CLL4112*	17.10	18	18.90	250	100	0.05	13.7	13.2	40
CLL4113*	18.05	19	19.95	250	150	0.05	14.5	12.5	40
CLL4114*	19.00	20	21.00	250	150	0.01	15.2	11.9	40
CLL4115*	20.90	22	23.10	250	150	0.01	16.8	10.8	40
CLL4116*	22.80	24	25.20	250	150	0.01	18.3	9.9	40

* Available on special order only, please consult factory

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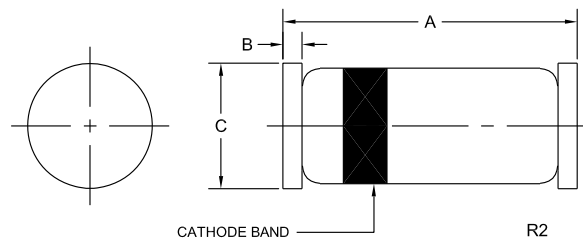


ELECTRICAL CHARACTERISTICS - Continued:
($T_A=25^\circ\text{C}$) $V_F=1.0\text{V MAX @ } I_F=200\text{mA}$ (FOR ALL TYPES)

TYPE NO.	ZENER VOLTAGE			TEST CURRENT	MAXIMUM ZENER IMPEDANCE	MAX REVERSE LEAKAGE CURRENT		MAXIMUM ZENER CURRENT	MAXIMUM NOISE DENSITY
	$V_Z @ I_{ZT}$			I_{ZT}	$Z_{ZT} @ I_{ZT}$	$I_R @ V_R$		I_{ZM}	$N_D @ I_{ZT}$
	MIN	NOM	MAX						
	V	V	V	μA	Ω	μA	V	mA	$\mu\text{V}/\sqrt{\text{Hz}}$
CLL4117*	23.75	25	26.25	250	150	0.01	19.0	9.5	40
CLL4118*	25.65	27	28.35	250	150	0.01	20.5	8.8	40
CLL4119*	26.60	28	29.40	250	200	0.01	21.3	8.5	40
CLL4120*	28.50	30	31.50	250	200	0.01	22.8	7.9	40
CLL4121*	31.35	33	34.65	250	200	0.01	25.1	7.2	40
CLL4122*	34.20	36	37.80	250	200	0.01	27.4	6.6	40
CLL4123*	37.05	39	40.95	250	200	0.01	29.7	6.1	40
CLL4124*	40.85	43	45.15	250	250	0.01	32.7	5.5	40
CLL4125*	44.65	47	49.35	250	250	0.01	35.8	5.1	40

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SOD-80 CASE - MECHANICAL OUTLINE



MARKING: CATHODE BAND

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.130	0.146	3.30	3.71
B	0.014		0.35	
C (DIA)	0.049	0.067	1.25	1.70

SOD-80 (REV:R2)

R6 (8-January 2010)