CLL4678 THRU CLL4717

SURFACE MOUNT
LOW LEVEL SILICON ZENER DIODES
1.8 VOLTS THRU 43 VOLTS
500mW, 5% TOLERANCE



SOD-80 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CLL4678 Series Silicon Low Level Zener Diode is a high quality voltage regulator designed for applications requiring an extremely low operating current and low leakage.

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MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**		**UNIT**
Power Dissipation	P_D	500	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +200	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C), V_F=1.5V MAX @ I_F=100mA (FOR ALL TYPES)

TYPE	ZENER VOLTAGE V_Z @ I_{ZT}			TEST CURRENT	MAXIMUM REVERSE LEAKAGE CURRENT		MAXIMUM VOLTAGE CHANGE**	MAXIMUM ZENER CURRENT
	MIN	NOM	MAX	I_{ZT}	I_R @ V_R		ΔV_Z	I_{ZM}
	V	V	V	μA	μA	V	V	mA
CLL4678	1.710	1.8	1.890	50	7.5	1.0	0.70	120.0
CLL4679	1.900	2.0	2.100	50	5.0	1.0	0.70	110.0
CLL4680	2.090	2.2	2.310	50	4.0	1.0	0.75	100.0
CLL4681	2.280	2.4	2.520	50	2.0	1.0	0.80	95.0
CLL4682	2.565	2.7	2.835	50	1.0	1.0	0.85	90.0
CLL4683	2.850	3.0	3.150	50	0.8	1.0	0.90	85.0
CLL4684	3.135	3.3	3.465	50	7.5	1.5	0.95	80.0
CLL4685	3.420	3.6	3.780	50	7.5	2.0	0.95	75.0
CLL4686	3.705	3.9	4.095	50	5.0	2.0	0.97	70.0
CLL4687	4.085	4.3	4.515	50	4.0	2.0	0.99	65.0
CLL4688	4.465	4.7	4.935	50	10	3.0	0.99	60.0
CLL4689	4.845	5.1	5.355	50	10	3.0	0.97	55.0
CLL4690	5.320	5.6	5.880	50	10	4.0	0.96	50.0
CLL4691	5.890	6.2	6.510	50	10	5.0	0.95	45.0
CLL4692	6.460	6.8	7.140	50	10	5.1	0.90	35.0
CLL4693	7.125	7.5	7.875	50	10	5.7	0.75	31.8
CLL4694	7.790	8.2	8.610	50	1.0	6.2	0.50	29.0
CLL4695	8.265	8.7	9.135	50	1.0	6.6	0.10	27.4
CLL4696	8.645	9.1	9.555	50	1.0	6.9	0.08	26.2

** ΔV_Z=V_Z @ 100μA MINUS V_Z @ 10μA

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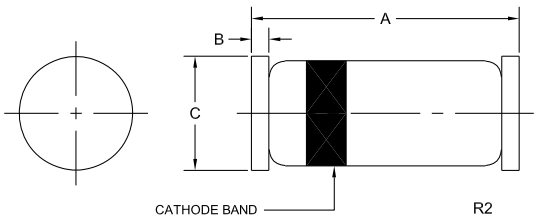
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ELECTRICAL CHARACTERISTICS - Continued: (T_A=25°C), V_F=1.5V MAX @ I_F=100mA (FOR ALL TYPES)

TYPE	ZENER VOLTAGE V_Z @ I_{ZT}			TEST CURRENT	MAXIMUM REVERSE LEAKAGE CURRENT		MAXIMUM VOLTAGE CHANGE**	MAXIMUM ZENER CURRENT
	MIN	NOM	MAX	I_{ZT}	I_R @ V_R		ΔV_Z	I_{ZM}
	V	V	V	µA	µA	V	V	mA
CLL4697	9.500	10	10.50	50	1.0	7.6	0.10	24.8
CLL4698	10.45	11	11.55	50	0.05	8.4	0.11	21.6
CLL4699	11.40	12	12.60	50	0.05	9.1	0.12	20.4
CLL4700	12.35	13	13.65	50	0.05	9.8	0.13	19.0
CLL4701	13.30	14	14.70	50	0.05	10.6	0.14	17.5
CLL4702	14.25	15	15.75	50	0.05	11.4	0.15	16.3
CLL4703	15.20	16	16.80	50	0.05	12.1	0.16	15.4
CLL4704	16.15	17	17.85	50	0.05	12.9	0.17	14.5
CLL4705	17.10	18	18.90	50	0.05	13.6	0.18	13.2
CLL4706	18.05	19	19.95	50	0.05	14.4	0.19	12.5
CLL4707	19.00	20	21.00	50	0.01	15.2	0.20	11.9
CLL4708	20.90	22	23.10	50	0.01	16.7	0.22	10.8
CLL4709	22.80	24	25.20	50	0.01	18.2	0.24	9.9
CLL4710	23.75	25	26.25	50	0.01	19.0	0.25	9.5
CLL4711	25.65	27	28.35	50	0.01	20.4	0.27	8.8
CLL4712	26.60	28	29.40	50	0.01	21.2	0.28	8.5
CLL4713	28.50	30	31.50	50	0.01	22.8	0.30	7.9
CLL4714	31.35	33	34.65	50	0.01	25.0	0.33	7.2
CLL4715	34.20	36	37.80	50	0.01	27.3	0.36	6.6
CLL4716	37.05	39	40.95	50	0.01	29.6	0.39	6.1
CLL4717	40.85	43	45.15	50	0.01	32.6	0.43	5.5

** ΔV_Z=V_Z @ 100µA MINUS V_Z @ 10µA

SOD-80 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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)

MARKING: CATHODE BAND

R7 (8-January 2010)