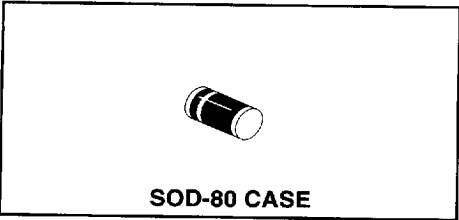


**CLL4678  
THRU  
CLL4717**

**500mW LOW LEVEL ZENER DIODE  
5% TOLERANCE**



# Central™

## Semiconductor Corp.

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR L4678 Series Silicon Zener Diode is a high quality voltage regulator designed for applications requiring an extremely low operating current and low leakage. **Marking Code: Cathode Band**

**ELECTRICAL CHARACTERISTICS**  
( $T_A=25^{\circ}C$ )  $V_F=1.5V$  MAX @  $I_F=100mA$  FOR ALL TYPES

**ABSOLUTE MAXIMUM RATINGS**  
Power Dissipation (@  $T_A = 50^{\circ}C$ )  
Operating and Storage Temperature

**SYMBOL**  
 $P_D$  500  
 $T_{J,TSTG}$  -65 to +200

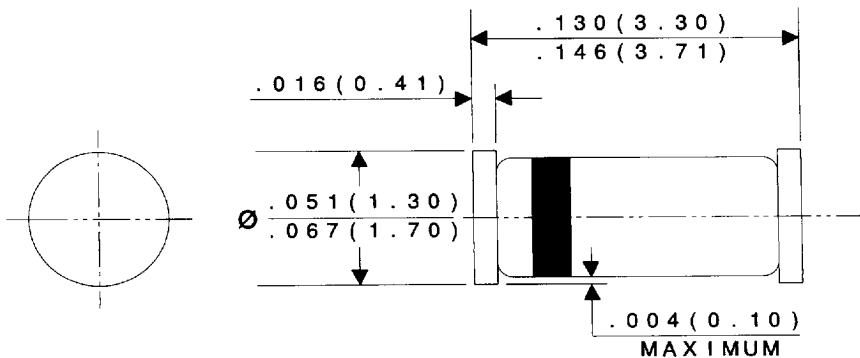
**UNITS**  
mW  
 $^{\circ}C$

Type No.	Nominal Zener Voltage	Test Current	Maximum Reverse Leakage Current		Maximum Voltage Change*	Maximum Zener Current
	$V_Z @ I_{ZT}$	$I_{ZT}$	$I_R @ V_R$		$\Delta V_Z$	$I_{ZM}$
	Volts	$\mu A$	$\mu A$	Volts	Volts	mA
CLL4678	1.8	50	7.5	1.0	0.70	120.0
CLL4679	2.0	50	5.0	1.0	0.70	110.0
CLL4680	2.2	50	4.0	1.0	0.75	100.0
CLL4681	2.4	50	2.0	1.0	0.80	95.0
CLL4682	2.7	50	1.0	1.0	0.85	90.0
CLL4683	3.0	50	0.8	1.0	0.90	85.0
CLL4684	3.3	50	7.5	1.5	0.95	80.0
CLL4685	3.6	50	7.5	2.0	0.95	75.0
CLL4686	3.9	50	5.0	2.0	0.97	70.0
CLL4687	4.3	50	4.0	2.0	0.99	65.0
CLL4688	4.7	50	10	3.0	0.99	60.0
CLL4689	5.1	50	10	3.0	0.97	55.0
CLL4690	5.6	50	10	4.0	0.96	50.0
CLL4691	6.2	50	10	5.0	0.95	45.0
CLL4692	6.8	50	10	5.1	0.90	35.0
CLL4693	7.5	50	10	5.7	0.75	31.8
CLL4694	8.2	50	1.0	6.2	0.50	29.0
CLL4695	8.7	50	1.0	6.6	0.10	27.4
CLL4696	9.1	50	1.0	6.9	0.08	26.2
CLL4697	10	50	1.0	7.6	0.10	24.8
CLL4698	11	50	0.05	8.4	0.11	21.6
CLL4699	12	50	0.05	9.1	0.12	20.4
CLL4700	13	50	0.05	9.8	0.13	19.0
CLL4701	14	50	0.05	10.6	0.14	17.5
CLL4702	15	50	0.05	11.4	0.15	16.3

\*  $\Delta V_Z = V_Z @ 100\mu A$  MINUS  $V_Z @ 10\mu A$ .

Type No.	Nominal Zener Voltage	Test Current	Maximum Reverse Leakage Current		Maximum Voltage Change*	Maximum Zener Current
	$V_Z @ I_{ZT}$	$I_{ZT}$	$I_R @ V_R$		$\Delta V_Z$	$I_{ZM}$
	Volts	$\mu A$	$\mu A$	Volts	Volts	mA
CLL4703	16	50	0.05	12.1	0.16	15.4
CLL4704	17	50	0.05	12.9	0.17	14.5
CLL4705	18	50	0.05	13.6	0.18	13.2
CLL4706	19	50	0.05	14.4	0.19	12.5
CLL4707	20	50	0.01	15.2	0.20	11.9
CLL4708	22	50	0.01	16.7	0.22	10.8
CLL4709	24	50	0.01	18.2	0.24	9.9
CLL4710	25	50	0.01	19.0	0.25	9.5
CLL4711	27	50	0.01	20.4	0.27	8.8
CLL4712	28	50	0.01	21.2	0.28	8.5
CLL4713	30	50	0.01	22.8	0.30	7.9
CLL4714	33	50	0.01	25.0	0.33	7.2
CLL4715	36	50	0.01	27.3	0.36	6.6
CLL4716	39	50	0.01	29.6	0.39	6.1
CLL4717	43	50	0.01	32.6	0.43	5.5

All dimensions in inches (mm).



DATA SHEET

R2

115

■ 1989963 0001766 172 ■

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