

**CMDZ5L1 THRU CMDZ36L**

**LOW LEVEL ZENER DIODE  
250mW, 5.1 VOLTS THRU 36 VOLTS**

**SUPER<sup>™</sup>  
mini**



**SOD-323 CASE**

**Central<sup>™</sup>  
Semiconductor Corp.**

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMDZ5L1 Series Silicon Low Level Zener Diode is a high quality voltage regulator specifically designed for operation at 500 $\mu$ A. Manufactured in a supermini surface mount package, designed for applications requiring a low operating current, low leakage, a sharp knee and tight real estate situations.

**ABSOLUTE MAXIMUM RATINGS:**

Power Dissipation (@T<sub>A</sub>=25°C)  
Operating and Storage Temperature  
Thermal Resistance

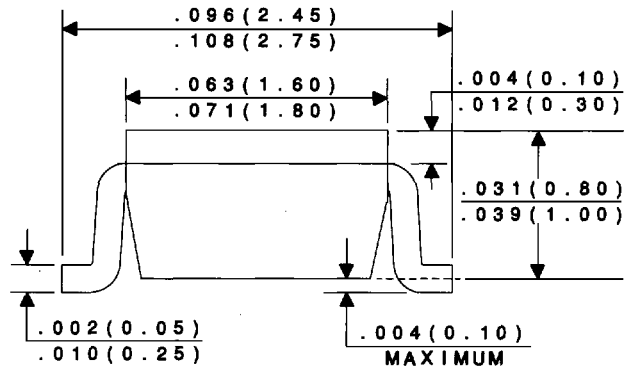
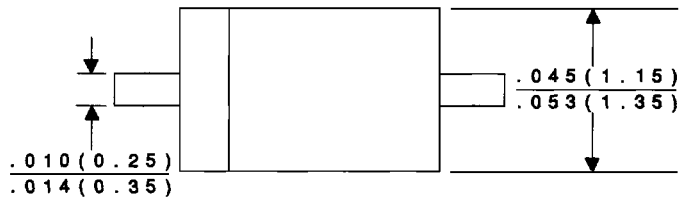
**SYMBOL**

SYMBOL	UNIT
P <sub>D</sub>	mW
T <sub>J</sub> , T <sub>stg</sub>	°C
θ <sub>JA</sub>	°C/W

**ELECTRICAL CHARACTERISTICS: (T<sub>A</sub>=25°C)**

TYPE	ZENER VOLTAGE V <sub>Z</sub> @ I <sub>ZT</sub>			TEST CURRENT	MAXIMUM ZENER IMPEDANCE	MAXIMUM REVERSE CURRENT		MARKING
	MIN	NOM	MAX	I <sub>ZT</sub>	Z <sub>ZT</sub> @ I <sub>ZT</sub>	I <sub>R</sub> @ V <sub>R</sub>		
	(V)	(V)	(V)	( $\mu$ A)	( $\Omega$ )	( $\mu$ A)	(V)	
CMDZ5L1	4.84	5.1	5.37	500	350	1.0	1.5	LP
CMDZ5L6	5.31	5.6	5.92	500	90	1.0	2.0	NP
CMDZ6L2	5.86	6.2	6.53	500	90	1.0	2.0	OP
CMDZ6L8	6.47	6.8	7.14	500	60	1.0	3.5	PP
CMDZ7L5	7.06	7.5	7.84	500	60	1.0	3.5	QP
CMDZ8L2	7.76	8.2	8.64	500	60	1.0	6.0	RP
CMDZ9L1	8.56	9.1	9.55	500	60	1.0	6.0	SP
CMDZ10L	9.45	10	10.55	500	80	1.0	8.0	TP
CMDZ11L	10.44	11	11.56	500	80	1.0	8.0	UP
CMDZ12L	11.42	12	12.60	500	80	1.0	10.5	VP
CMDZ13L	12.47	13	13.96	500	80	1.0	10.5	XP
CMDZ15L	13.84	15	15.52	500	80	1.0	11.5	YP
CMDZ16L	15.37	16	17.09	500	80	1.0	14	ZP
CMDZ18L	16.94	18	19.03	500	80	1.0	16	1P
CMDZ20L	18.86	20	21.08	500	100	1.0	18	2P
CMDZ22L	20.88	22	23.17	500	100	1.0	20	3P
CMDZ24L	22.93	24	25.57	500	120	1.0	22	4P
CMDZ27L	25.10	27	28.90	500	150	1.0	24	5P
CMDZ30L	28.00	30	32.00	500	200	1.0	27	6P
CMDZ33L	31.00	33	35.00	500	250	1.0	30	7P
CMDZ36L	34.00	36	38.00	500	300	1.0	33	8P

All dimensions in inches (mm).



DATA  
SHEET