CMDZ2L4 THRU CMDZ36L

SUPERmini™
LOW LEVEL ZENER DIODE
250mW, 2.4 VOLTS THRU 36 VOLTS

SOD-323 CASE

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDZ2L4 Series Silicon Low Level Zener Diode is a high quality voltage regulator, manufactured in a SUPERmini™ surface mount package, designed for applications requiring a low operating current, low leakage, and a sharp knee.

ABSOLUTE MAXIMUM RATINGS:

	SYMBOL		UNIT
Power Dissipation (@T_A=25°C)	P_D	250	mW
Operating and Storage Temperature	T_J,T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C)

TYPE	ZENER VOLTAGE V_Z @ I_{ZT}			TEST CURRENT	MAXIMUM ZENER IMPEDANCE	MAXIMUM REVERSE CURRENT		MARKING CODE
	MIN	NOM	MAX	I_{ZT}	Z_{ZT} @ I_{ZT}	I_R @ V_R		
	VOLTS	VOLTS	VOLTS	µA	Ω	µA	VOLTS	
CMDZ2L4	2.280	2.4	2.520	500	900	25	1.0	AP
CMDZ2L5	2.375	2.5	2.625	500	900	10	1.0	BP
CMDZ2L7	2.565	2.7	2.835	500	900	10	1.0	CP
CMDZ2L8	2.660	2.8	2.940	500	900	10	1.0	DP
CMDZ3L0	2.850	3.0	3.150	500	900	5.0	1.0	EP
CMDZ3L3	3.135	3.3	3.465	500	900	5.0	1.0	FP
CMDZ3L6	3.420	3.6	3.780	500	900	5.0	1.0	GP
CMDZ3L9	3.705	3.9	4.095	500	900	5.0	1.0	HP
CMDZ4L3	4.085	4.3	4.515	500	900	5.0	1.0	JP
CMDZ4L7	4.465	4.7	4.935	500	750	1.0	1.5	KP
CMDZ5L1	4.84	5.1	5.37	500	350	1.0	1.5	LP
CMDZ5L6	5.31	5.6	5.92	500	325	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

R1 (1-November 2001)

Central™
Semiconductor Corp.

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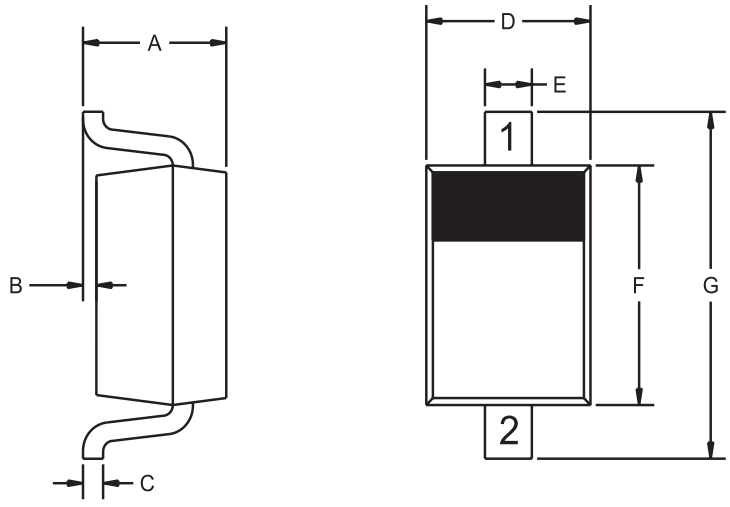
ELECTRICAL CHARACTERISTICS (CONTINUED):

TYPE	ZENER VOLTAGE V_Z @ I_{ZT}			TEST CURRENT	MAXIMUM ZENER IMPEDANCE	MAXIMUM REVERSE CURRENT		MARKING CODE
	MIN	NOM	MAX	I_{ZT}	Z_{ZT} @ I_{ZT}	I_R @ V_R		
	VOLTS	VOLTS	VOLTS	µA	Ω	µA	VOLTS	
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

SOD-323 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.031	0.039	0.80	1.00
B	--	0.004	--	0.10
C	0.002	0.010	0.05	0.25
D	0.045	0.053	1.15	1.35
E	0.010	0.014	0.25	0.35
F	0.063	0.071	1.60	1.80
G	0.096	0.108	2.45	2.75

SOD-323 (REV: R2)

R2

LEAD CODE:
1) Cathode
2) Anode

R1 (1-November 2001)