

CMOZ2V4C THRU CMOZ43VC

**SURFACE MOUNT
SILICON ZENER DIODE
2.4 VOLTS THRU 43 VOLTS
2% TOLERANCE**

ULTRAmini™**SOD-523 CASE**www.centrasemi.com**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMOZ2V4C Series Zener Diode is a high quality voltage regulator in an epoxy-molded ULTRAmini™ package, designed for applications requiring low leakage.

MARKING CODE: CONSULT FACTORY**MAXIMUM RATINGS:** ($T_A=25^\circ\text{C}$ unless otherwise noted)Power Dissipation (Note 1) ($T_A=50^\circ\text{C}$)

Power Dissipation (Note 2)

Power Dissipation (Note 3)

Operating and Storage Junction Temperature

Thermal Resistance ($P_D=300\text{mW}$)**SYMBOL** P_D P_D P_D T_J, T_{stg} Θ_{JA}

350

300

250

-65 to +150

417

UNITS

mW

mW

mW

 $^\circ\text{C}$ $^\circ\text{C/W}$ **ELECTRICAL CHARACTERISTICS:** ($T_A=25^\circ\text{C}$), $V_F=0.9\text{ MAX @ }I_F=10\text{mA}$ (for all types)

TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT	MAXIMUM ZENER IMPEDANCE	MAXIMUM REVERSE CURRENT	
	MIN	NOM	MAX	I_{ZT}	$Z_{ZT} @ I_{ZT}$	I_R	V_R
	V	V	V	μA	Ω	μA	V
CMOZ2V4C	2.35	2.4	2.45	5.0	100	25	1.0
CMOZ2V6C	2.55	2.6	2.65	5.0	100	25	1.0
CMOZ2V7C	2.65	2.7	2.75	5.0	100	10	1.0
CMOZ3V0C	2.94	3.0	3.06	5.0	95	5.0	1.0
CMOZ3V3C	3.23	3.3	3.37	5.0	95	2.0	1.0
CMOZ3V6C	3.53	3.6	3.67	5.0	90	2.0	1.0
CMOZ3V9C	3.82	3.9	3.98	5.0	90	2.0	1.0
CMOZ4V3C	4.21	4.3	4.39	5.0	90	1.0	1.0
CMOZ4V7C	4.61	4.7	4.79	5.0	80	3.0	2.0
CMOZ5V1C	5.00	5.1	5.20	5.0	60	2.0	2.0
CMOZ5V6C	5.49	5.6	5.71	5.0	40	1.0	2.0
CMOZ6V2C	6.08	6.2	6.32	5.0	10	3.0	4.0
CMOZ6V8C	6.66	6.8	6.94	5.0	15	2.0	4.0
CMOZ7V5C	7.35	7.5	7.65	5.0	15	1.0	5.0
CMOZ8V2C	8.04	8.2	8.36	5.0	15	0.7	5.0
CMOZ9V1C	8.92	9.1	9.28	5.0	15	0.5	6.0

Notes: (1) Ceramic or aluminum core PC Board with copper mounting pad area of 4.0mm^2 (2) FR-4 Epoxy PC Board with copper mounting pad area of 4.0mm^2 (3) FR-4 Epoxy PC Board with copper mounting pad area of 1.4mm^2

R1 (25-January 2010)

CMOZ2V4C THRU CMOZ43VC

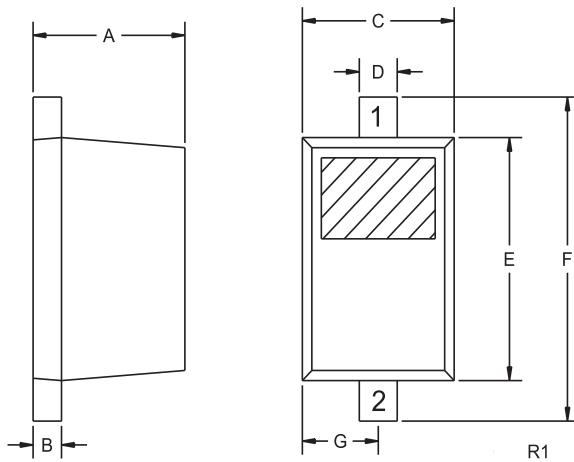
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ELECTRICAL CHARACTERISTICS - Continued: ($T_A=25^\circ\text{C}$), $V_F=0.9$ MAX @ $I_F=10\text{mA}$ (for all types)

TYPE	ZENER VOLTAGE V_Z @ I_{ZT}			TEST CURRENT	MAXIMUM ZENER IMPEDANCE	MAXIMUM REVERSE CURRENT	
	MIN	NOM	MAX	I_{ZT}	Z_{ZT} @ I_{ZT}	I_R	@ V_R
	V	V	V	μA	Ω	μA	V
CMOZ10VC	9.80	10	10.20	5.0	20	0.2	7.0
CMOZ11VC	10.78	11	11.22	5.0	20	0.1	8.0
CMOZ12VC	11.76	12	12.24	5.0	25	0.1	8.0
CMOZ13VC	12.74	13	13.26	5.0	30	0.1	8.0
CMOZ15VC	14.70	15	15.30	5.0	30	0.05	10.5
CMOZ16VC	15.68	16	16.32	5.0	40	0.05	11.2
CMOZ18VC	17.64	18	18.36	5.0	45	0.05	12.6
CMOZ20VC	19.60	20	20.40	5.0	55	0.05	14.0
CMOZ22VC	21.56	22	22.44	5.0	55	0.05	15.4
CMOZ24VC	23.52	24	24.48	5.0	70	0.05	16.8
CMOZ27VC	26.46	27	27.54	5.0	80	0.05	18.9
CMOZ30VC	29.40	30	30.60	5.0	80	0.05	21.0
CMOZ33VC	32.34	33	33.66	5.0	80	0.05	23.1
CMOZ36VC	35.28	36	36.72	5.0	90	0.05	25.2
CMOZ39VC	38.22	39	39.78	5.0	130	0.05	27.3
CMOZ43VC	42.14	43	43.86	5.0	150	0.05	30.1

SOD-523 CASE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.020	0.031	0.50	0.80
B	0.004	0.008	0.10	0.20
C	0.028	0.035	0.70	0.90
D	0.008	0.011	0.20	0.28
E	0.039	0.055	1.00	1.40
F	0.055	0.071	1.40	1.80
G	0.016		0.40	

SOD-523 (REV: R1)

LEAD CODE:

- 1) Cathode
- 2) Anode

R1 (25-January 2010)