

CMOZ2V4C THRU CMOZ43VC

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



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ULTRAmimi™



SOD-523 CASE

DESCRIPTION:

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

MARKING CODE: CONSULT FACTORY

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$ unless otherwise noted)	SYMBOL		UNITS
Power Dissipation (Note 1) ($T_A=50^\circ\text{C}$)	P_D	350	mW
Power Dissipation (Note 2)	P_D	300	mW
Power Dissipation (Note 3)	P_D	250	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	$^\circ\text{C}$
Thermal Resistance ($P_D=300\text{mW}$)	Θ_{JA}	417	$^\circ\text{C/W}$

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 I_{ZT}	MAXIMUM ZENER IMPEDANCE $Z_{ZT} @ I_{ZT}$	MAXIMUM REVERSE CURRENT $I_R @ V_R$	
	MIN V	NOM V	MAX V	mA	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
CMOZ10VC	9.80	10	10.20	5.0	20	0.2	7.0

- Notes: (1) Ceramic or aluminum core PC Board with copper mounting pad area of 4.0mm²
 (2) FR-4 Epoxy PC Board with copper mounting pad area of 4.0mm²
 (3) FR-4 Epoxy PC Board with copper mounting pad area of 1.4mm²

R3 (15-April 2011)

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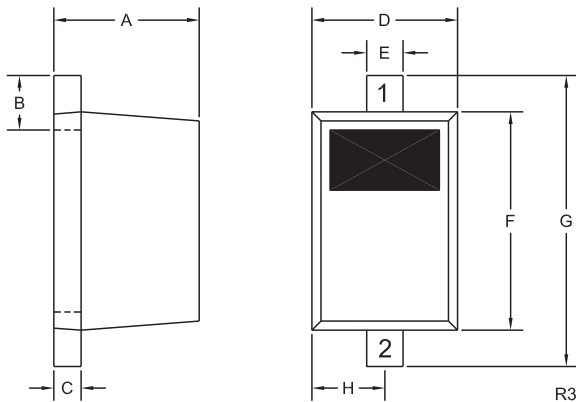
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ELECTRICAL CHARACTERISTICS - Continued: ($T_A=25^\circ\text{C}$), $V_F=0.9$ MAX @ $I_F=10\text{mA}$ (for all types)

TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT I_{ZT} mA	MAXIMUM ZENER IMPEDANCE $Z_{ZT} @ I_{ZT}$ Ω	MAXIMUM REVERSE CURRENT	
	MIN V	NOM V	MAX V			I_R μA	@ V_R V
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



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.020	0.031	0.50	0.80
B	0.008	0.016	0.20	0.40
C	0.002	0.008	0.05	0.20
D	0.028	0.035	0.70	0.90
E	0.008	0.014	0.20	0.35
F	0.039	0.055	1.00	1.40
G	0.055	0.071	1.40	1.80
H	0.016		0.40	

SOD-523 (REV: R3)

LEAD CODE:

- 1) Cathode
- 2) Anode

R3 (15-April 2011)