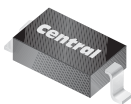


CMDZ2V4 THRU CMDZ47V

**SURFACE MOUNT
SILICON ZENER DIODE
2.4 VOLTS THRU 47 VOLTS
250mW, 5% TOLERANCE**

SUPERmini™



SOD-323 CASE



www.centralemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDZ2V4 Series Zener Diode is a high quality voltage regulator in an epoxy-molded **SUPERmini™** package, designed for applications requiring low leakage.

**MARKING CODE: SEE MARKING CODES ON
ELECTRICAL CHARACTERISTICS TABLE**

MAXIMUM RATINGS: ($T_A = 50^\circ\text{C}$)

Power Dissipation

Operating and Storage Junction Temperature

SYMBOL

P_D

T_J, T_{stg}

250

-65 to +175

UNIT

mW

$^\circ\text{C}$

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		MARKING CODE
	MIN	NOM	MAX	I _{ZT}	Z _{ZT} @ I _{ZT}	I _R @ V _R		
	V	V	V	mA	Ω	μA	V	
CMDZ2V4	2.28	2.4	2.52	5.0	100	25	1.0	2V4
CMDZ2V6	2.47	2.6	2.73	5.0	100	25	1.0	2V6
CMDZ2V7	2.57	2.7	2.84	5.0	100	10	1.0	2V7
CMDZ3V0	2.85	3.0	3.15	5.0	95	5.0	1.0	3V0
CMDZ3V3	3.14	3.3	3.47	5.0	95	2.0	1.0	3V3
CMDZ3V6	3.42	3.6	3.78	5.0	90	2.0	1.0	3V6
CMDZ3V9	3.71	3.9	4.10	5.0	90	2.0	1.0	3V9
CMDZ4V3	4.09	4.3	4.52	5.0	90	1.0	1.0	4V3
CMDZ4V7	4.47	4.7	4.94	5.0	80	3.0	2.0	4V7
CMDZ5V1	4.85	5.1	5.36	5.0	60	2.0	2.0	5V1
CMDZ5V6	5.32	5.6	5.88	5.0	40	1.0	2.0	5V6
CMDZ6V2	5.89	6.2	6.51	5.0	10	3.0	4.0	6V2
CMDZ6V8	6.46	6.8	7.14	5.0	15	2.0	4.0	6V8
CMDZ7V5	7.12	7.5	7.88	5.0	15	1.0	5.0	7V5
CMDZ8V2	7.79	8.2	8.61	5.0	15	0.7	5.0	8V2
CMDZ9V1	8.65	9.1	9.56	5.0	15	0.5	6.0	9V1
CMDZ10V	9.50	10	10.50	5.0	20	0.2	7.0	10V
CMDZ11V	10.45	11	11.55	5.0	20	0.1	8.0	11V
CMDZ12V	11.40	12	12.60	5.0	25	0.1	8.0	12V
CMDZ13V	12.35	13	13.65	5.0	30	0.1	8.0	13V

R2 (8-January 2010)

CMDZ2V4 THRU CMDZ47V

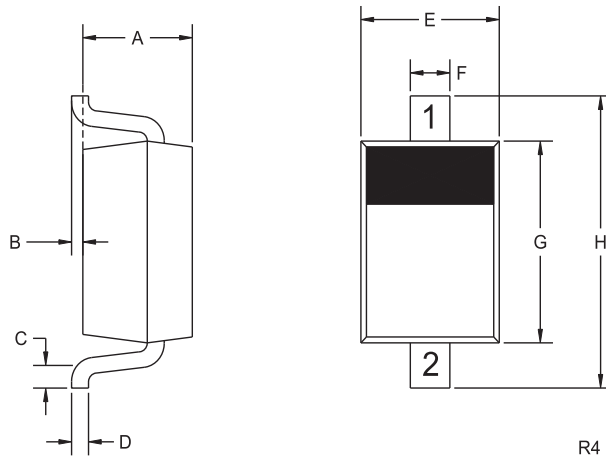
**SURFACE MOUNT
SILICON ZENER DIODE
2.4 VOLTS THRU 47 VOLTS
250mW, 5% TOLERANCE**



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		MARKING CODE
	MIN	NOM	MAX	I _{ZT}	Z _{ZT} @ I _{ZT}	I _R @ V _R		
	V	V	V	mA	Ω	μA	V	
CMDZ15V	14.25	15	15.75	5.0	30	0.05	10.5	15V
CMDZ16V	15.20	16	16.80	5.0	40	0.05	11.2	16V
CMDZ18V	17.10	18	18.90	5.0	45	0.05	12.6	18V
CMDZ20V	19.00	20	21.00	5.0	55	0.05	14.0	20V
CMDZ22V	20.90	22	23.10	5.0	55	0.05	15.4	22V
CMDZ24V	22.80	24	25.20	5.0	70	0.05	16.8	24V
CMDZ27V	25.65	27	28.35	5.0	80	0.05	18.9	27V
CMDZ30V	28.50	30	31.50	5.0	80	0.05	21.0	30V
CMDZ33V	31.35	33	34.65	5.0	80	0.05	23.1	33V
CMDZ36V	34.20	36	37.80	5.0	90	0.05	25.2	36V
CMDZ39V	37.05	39	40.95	5.0	130	0.05	27.3	39V
CMDZ43V	40.85	43	45.15	5.0	150	0.05	30.1	43V
CMDZ47V	44.65	47	49.35	5.0	180	0.05	32.9	47V

SOD-323 CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.031	0.039	0.80	1.00
B	0.000	0.004	0.00	0.10
C	0.008	-	0.20	-
D	0.004	0.007	0.11	0.19
E	0.045	0.053	1.15	1.35
F	-	0.014	-	0.35
G	0.063	0.071	1.60	1.80
H	0.094	0.102	2.40	2.60

SOD-323 (REV: R4)

LEAD CODE:

- 1) CATHODE
- 2) ANODE

R2 (8-January 2010)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.
145 Adams Avenue
Hauppauge, NY 11788 USA
Main Tel: (631) 435-1110
Main Fax: (631) 435-1824
Support Team Fax: (631) 435-3388
www.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
www.centrasemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms



<https://www.centalsemi.com>

Product End of Life Notification

PDN ID:	PDN01277
Notification Date:	2/19/25
Last Buy Date:	8/19/25
Last Shipment Date	2/19/26

Summary: All devices manufactured in the SOD-323 package are discontinued and now classified as End of Life (EOL). Available options are: 1. Orders will be accepted for products with available inventory. 2. Last Time Buy (LTB) may be available for certain items. 3. A replacement product not available at the time of this notice, may be under development. Please contact your Central Semiconductor Customer Service Representative at 001.631.435.1110

Although Central Semiconductor makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Portfolio Management. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

*** All Plating types (PBFREE, TIN/LEAD) for each item listed are included in this notice.**

Central Part Number	Suggested Replacement
CEN1095 BK	N/A
CEN1095 TR	N/A
CEN1208 BK	N/A
CEN1208 TR	N/A
CMDD2004 BK	N/A
CMDD2004 TR	N/A
CMDD3003 BK	N/A
CMDD3003 TR	N/A
CMDD4448 BK	N/A
CMDD4448 TR	N/A
CMDD6001 BK	N/A
CMDD6001 TR	N/A
CMDD6263 BK	N/A
CMDD6263 TR	N/A
CMDSH-3 BK	N/A
CMDSH-3 TR	N/A
CMDSH-4E BK	N/A
CMDSH-4E TR	N/A
CMDSH05-4 BK	N/A
CMDSH05-4 TR	N/A
CMDSH05-45 BK	N/A
CMDSH05-45 TR	N/A
CMDSH05-45 TR13	N/A
CMDSH2-3 BK	N/A
CMDSH2-3 TR	N/A
CMDSH2-4L BK	N/A
CMDSH2-4L TR	N/A
CMDZ1L8 BK	N/A
CMDZ1L8 TR	N/A
CMDZ10L BK	N/A
CMDZ10L TR	N/A
CMDZ10V BK	N/A
CMDZ10V TR	N/A

*** CONTINUED ***

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.



<https://www.centrasemi.com>

Product End of Life Notification

PDN ID:	PDN01277
Notification Date:	2/19/25
Last Buy Date:	8/19/25
Last Shipment Date	2/19/26

*** CONTINUED FROM PRIOR PAGE ***

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

Central Part Number	Suggested Replacement
CMDZ11L BK	N/A
CMDZ11L TR	N/A
CMDZ11V BK	N/A
CMDZ11V TR	N/A
CMDZ12L BK	N/A
CMDZ12L TR	N/A
CMDZ12V BK	N/A
CMDZ12V TR	N/A
CMDZ13L BK	N/A
CMDZ13L TR	N/A
CMDZ13V BK	N/A
CMDZ13V TR	N/A
CMDZ15L BK	N/A
CMDZ15L TR	N/A
CMDZ15LD BK	N/A
CMDZ15LD TR	N/A
CMDZ15V BK	N/A
CMDZ15V TR	N/A
CMDZ16L BK	N/A
CMDZ16L TR	N/A
CMDZ16V BK	N/A
CMDZ16V TR	N/A
CMDZ18L BK	N/A
CMDZ18L TR	N/A
CMDZ18V BK	N/A
CMDZ18V TR	N/A
CMDZ2L0 BK	N/A
CMDZ2L0 TR	N/A
CMDZ2L2 BK	N/A
CMDZ2L2 TR	N/A
CMDZ2L4 BK	N/A
CMDZ2L4 TR	N/A
CMDZ2L5 BK	N/A
CMDZ2L5 TR	N/A
CMDZ2L7 BK	N/A
CMDZ2L7 TR	N/A
CMDZ2L8 BK	N/A
CMDZ2L8 TR	N/A
CMDZ2V4 BK	N/A
CMDZ2V4 TR	N/A
CMDZ2V6 BK	N/A
CMDZ2V6 TR	N/A
CMDZ2V7 BK	N/A

*** CONTINUED ***

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Product End of Life Notification

PDN ID:	PDN01277
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*** CONTINUED FROM PRIOR PAGE ***

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

Central Part Number	Suggested Replacement
CMDZ2V7 TR	N/A
CMDZ20L BK	N/A
CMDZ20L TR	N/A
CMDZ20V BK	N/A
CMDZ20V TR	N/A
CMDZ22L BK	N/A
CMDZ22L TR	N/A
CMDZ22V BK	N/A
CMDZ22V TR	N/A
CMDZ24L BK	N/A
CMDZ24L TR	N/A
CMDZ24V BK	N/A
CMDZ24V TR	N/A
CMDZ27L BK	N/A
CMDZ27L TR	N/A
CMDZ27V BK	N/A
CMDZ27V TR	N/A
CMDZ3L0 BK	N/A
CMDZ3L0 TR	N/A
CMDZ3L3 BK	N/A
CMDZ3L3 TR	N/A
CMDZ3L6 BK	N/A
CMDZ3L6 TR	N/A
CMDZ3L9 BK	N/A
CMDZ3L9 TR	N/A
CMDZ3V0 BK	N/A
CMDZ3V0 TR	N/A
CMDZ3V3 BK	N/A
CMDZ3V3 TR	N/A
CMDZ3V6 BK	N/A
CMDZ3V6 TR	N/A
CMDZ3V9 BK	N/A
CMDZ3V9 TR	N/A
CMDZ30L BK	N/A
CMDZ30L TR	N/A
CMDZ30V BK	N/A
CMDZ30V TR	N/A
CMDZ33L BK	N/A
CMDZ33L TR	N/A
CMDZ33V BK	N/A
CMDZ33V TR	N/A
CMDZ36L BK	N/A
CMDZ36L TR	N/A

*** CONTINUED ***

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*** CONTINUED FROM PRIOR PAGE ***

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

Central Part Number	Suggested Replacement
CMDZ36V BK	N/A
CMDZ36V TR	N/A
CMDZ39L BK	N/A
CMDZ39L TR	N/A
CMDZ39V BK	N/A
CMDZ39V TR	N/A
CMDZ4L3 BK	N/A
CMDZ4L3 TR	N/A
CMDZ4L7 BK	N/A
CMDZ4L7 TR	N/A
CMDZ4V3 BK	N/A
CMDZ4V3 TR	N/A
CMDZ4V7 BK	N/A
CMDZ4V7 TR	N/A
CMDZ43L BK	N/A
CMDZ43L TR	N/A
CMDZ43V BK	N/A
CMDZ43V TR	N/A
CMDZ47L BK	N/A
CMDZ47L TR	N/A
CMDZ47V BK	N/A
CMDZ47V TR	N/A
CMDZ5L1 BK	N/A
CMDZ5L1 TR	N/A
CMDZ5L6 BK	N/A
CMDZ5L6 TR	N/A
CMDZ5V1 BK	N/A
CMDZ5V1 TR	N/A
CMDZ5V6 BK	N/A
CMDZ5V6 TR	N/A
CMDZ5221B BK	N/A
CMDZ5221B TR	N/A
CMDZ5222B BK	N/A
CMDZ5222B TR	N/A
CMDZ5223B BK	N/A
CMDZ5223B TR	N/A
CMDZ5224B BK	N/A
CMDZ5224B TR	N/A
CMDZ5225B BK	N/A
CMDZ5225B TR	N/A
CMDZ5226B BK	N/A
CMDZ5226B TR	N/A
CMDZ5227B BK	N/A

*** CONTINUED ***

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*** CONTINUED FROM PRIOR PAGE ***

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

Central Part Number	Suggested Replacement
CMDZ5227B TR	N/A
CMDZ5228B BK	N/A
CMDZ5228B TR	N/A
CMDZ5229B BK	N/A
CMDZ5229B TR	N/A
CMDZ5230B BK	N/A
CMDZ5230B TR	N/A
CMDZ5231B BK	N/A
CMDZ5231B TR	N/A
CMDZ5232B BK	N/A
CMDZ5232B TR	N/A
CMDZ5233B BK	N/A
CMDZ5233B TR	N/A
CMDZ5234B BK	N/A
CMDZ5234B TR	N/A
CMDZ5235B BK	N/A
CMDZ5235B TR	N/A
CMDZ5236B BK	N/A
CMDZ5236B TR	N/A
CMDZ5237B BK	N/A
CMDZ5237B TR	N/A
CMDZ5238B BK	N/A
CMDZ5238B TR	N/A
CMDZ5239B BK	N/A
CMDZ5239B TR	N/A
CMDZ5240B BK	N/A
CMDZ5240B TR	N/A
CMDZ5241B BK	N/A
CMDZ5241B TR	N/A
CMDZ5242B BK	N/A
CMDZ5242B TR	N/A
CMDZ5243B BK	N/A
CMDZ5243B TR	N/A
CMDZ5244B BK	N/A
CMDZ5244B TR	N/A
CMDZ5245B BK	N/A
CMDZ5245B TR	N/A
CMDZ5246B BK	N/A
CMDZ5246B TR	N/A
CMDZ5247B BK	N/A
CMDZ5247B TR	N/A
CMDZ5248B BK	N/A
CMDZ5248B TR	N/A

*** CONTINUED ***

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*** CONTINUED FROM PRIOR PAGE ***

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

Central Part Number	Suggested Replacement
CMDZ5249B BK	N/A
CMDZ5249B TR	N/A
CMDZ5250B BK	N/A
CMDZ5250B TR	N/A
CMDZ5251B BK	N/A
CMDZ5251B TR	N/A
CMDZ5252B BK	N/A
CMDZ5252B TR	N/A
CMDZ5253B BK	N/A
CMDZ5253B TR	N/A
CMDZ5254B BK	N/A
CMDZ5254B TR	N/A
CMDZ5255B BK	N/A
CMDZ5255B TR	N/A
CMDZ5256B BK	N/A
CMDZ5256B TR	N/A
CMDZ5257B BK	N/A
CMDZ5257B TR	N/A
CMDZ5258B BK	N/A
CMDZ5258B TR	N/A
CMDZ5259B BK	N/A
CMDZ5259B TR	N/A
CMDZ5259B TR13	N/A
CMDZ5260B BK	N/A
CMDZ5260B TR	N/A
CMDZ5261B BK	N/A
CMDZ5261B TR	N/A
CMDZ6L2 BK	N/A
CMDZ6L2 TR	N/A
CMDZ6L8 BK	N/A
CMDZ6L8 TR	N/A
CMDZ6V2 BK	N/A
CMDZ6V2 TR	N/A
CMDZ6V8 BK	N/A
CMDZ6V8 TR	N/A
CMDZ7L5 BK	N/A
CMDZ7L5 TR	N/A
CMDZ7V5 BK	N/A
CMDZ7V5 TR	N/A
CMDZ8L2 BK	N/A
CMDZ8L2 TR	N/A
CMDZ8V2 BK	N/A
CMDZ8V2 TR	N/A

*** CONTINUED ***

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*** CONTINUED FROM PRIOR PAGE ***

*** All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.**

Central Part Number	Suggested Replacement
CMDZ9L1 BK	N/A
CMDZ9L1 TR	N/A
CMDZ9V1 BK	N/A
CMDZ9V1 TR	N/A
HCMDD2004 BK	N/A

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. If you would like assistance, please visit <https://my.centrasemi.com/submit-inquiry?type=ER> to submit an online inquiry.

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Mouser Electronics

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[CMDZ10V TR PBFREE](#) [CMDZ11V TR PBFREE](#) [CMDZ12V TR PBFREE](#) [CMDZ13V TR PBFREE](#) [CMDZ2V4 TR PBFREE](#) [CMDZ2V6 TR PBFREE](#) [CMDZ2V7 TR PBFREE](#) [CMDZ30V TR PBFREE](#) [CMDZ3V9 TR PBFREE](#) [CMDZ43V TR PBFREE](#) [CMDZ47V TR PBFREE](#) [CMDZ4V3 TR PBFREE](#) [CMDZ4V7 TR PBFREE](#) [CMDZ15V TR PBFREE](#) [CMDZ16V TR PBFREE](#) [CMDZ18V TR PBFREE](#) [CMDZ20V TR PBFREE](#) [CMDZ22V TR PBFREE](#) [CMDZ24V BK PBFREE](#) [CMDZ24V TR PBFREE](#) [CMDZ27V TR PBFREE](#) [CMDZ7V5 TR PBFREE](#) [CMDZ8V2 TR PBFREE](#) [CMDZ9V1 TR PBFREE](#) [CMDZ5V1 TR PBFREE](#) [CMDZ5V6 TR PBFREE](#) [CMDZ6V2 TR PBFREE](#) [CMDZ6V8 TR PBFREE](#) [CMDZ33V TR PBFREE](#) [CMDZ36V TR PBFREE](#) [CMDZ39V TR PBFREE](#) [CMDZ3V0 BK PBFREE](#) [CMDZ3V0 TR PBFREE](#) [CMDZ3V3 TR PBFREE](#) [CMDZ3V6 TR PBFREE](#)