

CMLZDA2V4
THRU
CMLZDA47V
SURFACE MOUNT SILICON
DUAL, COMMON ANODE
ZENER DIODES
2.4 VOLT THRU 47 VOLT



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMLZDA2V4 series silicon dual zener diode is a high quality voltage regulator, connected in a common anode configuration, for use in industrial, commercial, entertainment and computer applications.

MARKING CODE: SEE MARKING CODES ON ELECTRICAL CHARACTERISTICS TABLE



SOT-563 CASE

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL

P_D 250
 T_J, T_{stg} -65 TO +150
 θ_{JA} 500

UNITS

mW
 $^\circ\text{C}$
 $^\circ\text{C/W}$

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

TYPE	ZENER VOLTAGE		TEST CURRENT	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT		MAXIMUM ZENER CURRENT	MAXIMUM ZENER VOLTAGE TEMP. COEFF.	MARKING CODE
	$V_Z @ I_{ZT}$			$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_R @ V_R$					
	MIN V	MAX V	I_{ZT} mA			Ω	Ω	mA	μA	V	
CMLZDA2V4	2.2	2.6	5.0	100	600	1.0	50	1.0	63	-0.06	CW3
CMLZDA2V7	2.5	2.9	5.0	100	600	1.0	20	1.0	57	-0.06	CW4
CMLZDA3V0	2.8	3.2	5.0	95	600	1.0	10	1.0	54	-0.06	CW5
CMLZDA3V3	3.1	3.5	5.0	95	600	1.0	5.0	1.0	47	-0.06	CW6
CMLZDA3V6	3.4	3.8	5.0	95	600	1.0	2.0	1.0	45	-0.06	CW7
CMLZDA3V9	3.7	4.1	5.0	90	600	1.0	2.0	1.0	43	-0.06	CW8
CMLZDA4V3	4.0	4.6	5.0	90	600	1.0	1.0	1.0	40	-0.05	CW9
CMLZDA4V7	4.4	5.0	5.0	80	500	1.0	3.0	2.0	38	-0.03	CZ1
CMLZDA5V1	4.8	5.4	5.0	60	480	1.0	2.0	2.0	35	0.02	CZ2
CMLZDA5V6	5.2	6.0	5.0	40	400	1.0	1.0	2.0	32	0.03	CZ3
CMLZDA6V2	5.8	6.6	5.0	10	150	1.0	3.0	4.0	28	0.04	CZ4
CMLZDA6V8	6.5	7.2	5.0	15	80	1.0	2.0	4.0	25	0.05	CZ5
CMLZDA7V5	7.0	7.9	5.0	15	80	1.0	1.0	5.0	23	0.05	CZ6
CMLZDA8V2	7.7	8.7	5.0	15	80	1.0	0.7	5.0	21	0.06	CZ7
CMLZDA9V1	8.5	9.6	5.0	15	100	1.0	0.5	6.0	18	0.06	CZ8
CMLZDA10V	9.4	10.6	5.0	20	150	1.0	0.2	7.0	16	0.07	CZ9
CMLZDA11V	10.4	11.6	5.0	20	150	1.0	0.1	8.0	15	0.07	CY1
CMLZDA12V	11.4	12.7	5.0	25	150	1.0	0.1	8.0	13	0.07	CY2
CMLZDA13V	12.4	14.1	5.0	30	170	1.0	0.1	8.0	12	0.08	CY3
CMLZDA15V	13.8	15.6	5.0	30	200	1.0	0.05	10.5	11	0.08	CY4
CMLZDA16V	15.3	17.1	5.0	40	200	1.0	0.05	11.2	10	0.08	CY5

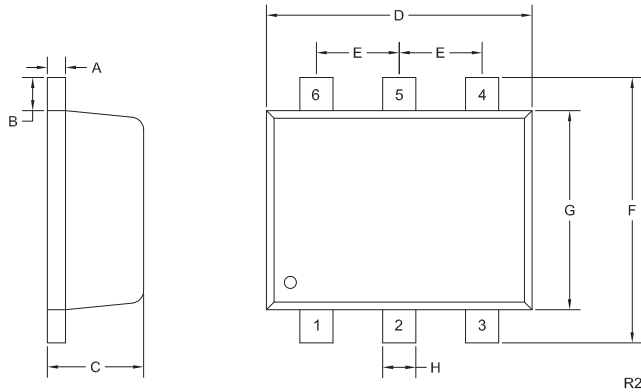
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ELECTRICAL CHARACTERISTICS - Continued: ($T_A=25^\circ\text{C}$) $V_F=0.9\text{V MAX @ }I_F=10\text{mA}$ (for all types)

TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$		TEST CURRENT I_{ZT}	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT $I_R @ V_R$		MAXIMUM ZENER CURRENT I_{ZM}	MAXIMUM ZENER VOLTAGE TEMP. COEFF. ΘV_Z	MARKING CODE
	MIN	MAX		$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$		μA	V			
	V	V	Ω		Ω	mA					
CMLZDA18V	16.8	19.1	5.0	45	225	1.0	0.05	12.6	9.2	0.08	CY6
CMLZDA20V	18.8	21.2	5.0	55	225	1.0	0.05	14.0	8.3	0.08	CY7
CMLZDA22V	20.8	23.3	5.0	55	250	1.0	0.05	15.4	7.6	0.09	CY8
CMLZDA24V	22.8	25.6	5.0	70	250	1.0	0.05	16.8	7.0	0.09	CY9
CMLZDA27V	25.1	28.9	2.0	80	300	0.5	0.05	18.9	6.2	0.09	CYA
CMLZDA30V	28.0	32.0	2.0	80	300	0.5	0.05	21.0	5.6	0.09	CYB
CMLZDA33V	31.0	35.0	2.0	80	325	0.5	0.05	23.1	5.0	0.09	CYC
CMLZDA36V	34.0	38.0	2.0	90	350	0.5	0.05	25.2	4.6	0.09	CYD
CMLZDA39V	37.0	41.0	2.0	130	350	0.5	0.05	27.3	4.3	0.09	CYE
CMLZDA43V	40.0	46.0	2.0	150	375	0.5	0.05	30.1	3.9	0.10	CYF
CMLZDA47V	44.0	50.0	2.0	170	375	0.5	0.05	32.9	3.5	0.10	CYH

SOT-563 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.0027	0.007	0.07	0.18
B	0.008		0.20	
C	0.017	0.024	0.45	0.60
D	0.059	0.067	1.50	1.70
E	0.020		0.50	
F	0.059	0.067	1.50	1.70
G	0.043	0.051	1.10	1.30
H	0.006	0.012	0.15	0.30

SOT-563 (REV: R2)

LEAD CODE:

- 1) NC
- 2) Anode D1, D2
- 3) NC
- 4) Cathode D2
- 5) NC
- 6) Cathode D1

R3 (1-July 2015)

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

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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



<http://www.centrasemi.com>

Product End of Life Notification

PDN ID:	PDN01063 Rev:001
Notification Date:	3/03/17
Last Buy Date:	N/A
Last Shipment Date	N/A

Please be advised that Central Semiconductor must immediately discontinue the product(s) listed in the attached PDN notice. We are unable to accept any further orders for these products **unless** we have available inventory on hand.

You may have purchased one or more of the products listed. Please do not hesitate to contact your local Central Semiconductor sales representative with any questions or needs you may have. Central regrets any inconvenience this may cause.

Sincerely,

Central Semiconductor Corp.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. 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.

Product End of Life Notification

PDN ID:	PDN01063 Rev:001
Notification Date:	3/03/17
Last Buy Date:	N/A
Last Shipment Date	N/A

Summary: All devices manufactured in the SOT-563 package, using the Option 2 Lead Frame, are discontinued and now classified as End of Life (EOL). Rev001 issued to include BK devices previously excluded in error.

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by various 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 Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

<u>Central Part Number</u>	<u>Replacement</u>
CMLD2004G BK	N/A
CMLD2004G TR	N/A
CMLD4448 BK	N/A
CMLD4448 TR	N/A
CMLD6001 BK	N/A
CMLD6001 TR	N/A
CMLD6263 BK	N/A
CMLD6263 TR	N/A
CMLD6263S BK	N/A
CMLD6263S TR	N/A
CMLSH-4 BK	N/A
CMLSH-4 TR	N/A
CMLZDA3V3 BK	N/A
CMLZDA3V3 TR	N/A
CMLZDA6V2 BK	N/A
CMLZDA6V2 TR	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. Please email your requests to engineering@centrasemi.com.

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