

CMXZ2V4TO THRU CMXZ47VTO

**SURFACE MOUNT, TRIPLE, ISOLATED  
OPPOSING SILICON ZENER DIODES  
2.4 VOLTS THRU 47 VOLTS  
5% TOLERANCE**



www.centrasemi.com



**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMXZ2V4TO Series consists of three (3) Isolated Silicon Zener Diodes arranged in an alternating configuration and packaged in a surface mount SOT-26 case. These high quality voltage regulators are for use in industrial, commercial, entertainment, and computer applications.

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

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

Power Dissipation  
Operating and Storage Junction Temperature  
Thermal Resistance

**SYMBOL**

$P_D$   
 $T_J, T_{stg}$   
 $\theta_{JA}$

350  
-65 to +150  
357

**UNITS**

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

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

TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT $I_{ZT}$	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT		MAXIMUM ZENER CURRENT $I_{ZM}$	MAXIMUM ZENER VOLTAGE TEMP. COEFF. $\theta_{VZ}$	MARKING CODE
	MIN	NOM	MAX		$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$				
	V	V	V		mA	$\Omega$	$\Omega$	mA	$\mu\text{A}$			
CMXZ2V4TO	2.280	2.4	2.520	5.0	100	600	1.0	50	1.0	104	-0.06	CZ2V4
CMXZ2V7TO	2.565	2.7	2.835	5.0	100	600	1.0	20	1.0	92	-0.06	CZ2V7
CMXZ3V0TO	2.850	3.0	3.150	5.0	95	600	1.0	10	1.0	83	-0.06	CZ3V0
CMXZ3V3TO	3.135	3.3	3.465	5.0	95	600	1.0	5.0	1.0	76	-0.06	CZ3V3
CMXZ3V6TO	3.420	3.6	3.780	5.0	90	600	1.0	5.0	1.0	69	-0.06	CZ3V6
CMXZ3V9TO	3.705	3.9	4.095	5.0	90	600	1.0	3.0	1.0	64	-0.06	CZ3V9
CMXZ4V3TO	4.085	4.3	4.515	5.0	90	600	1.0	3.0	1.0	58	-0.05	CZ4V3
CMXZ4V7TO	4.465	4.7	4.935	5.0	80	500	1.0	3.0	2.0	53	-0.03	CZ4V7
CMXZ5V1TO	4.845	5.1	5.355	5.0	60	480	1.0	2.0	2.0	49	0.02	CZ5V1
CMXZ5V6TO	5.320	5.6	5.880	5.0	40	400	1.0	1.0	2.0	45	0.03	CZ5V6
CMXZ6V2TO	5.890	6.2	6.510	5.0	10	150	1.0	3.0	4.0	40	0.04	CZ6V2
CMXZ6V8TO	6.460	6.8	7.140	5.0	15	80	1.0	2.0	4.0	37	0.05	CZ6V8
CMXZ7V5TO	7.125	7.5	7.875	5.0	15	80	1.0	1.0	5.0	33	0.05	CZ7V5
CMXZ8V2TO	7.790	8.2	8.610	5.0	15	80	1.0	0.7	5.0	30	0.06	CZ8V2
CMXZ9V1TO	8.645	9.1	9.555	5.0	15	100	1.0	0.5	6.0	27	0.06	CZ9V1
CMXZ10VTO	9.50	10.0	10.50	5.0	20	150	1.0	0.2	7.0	25	0.07	CZ10V
CMXZ11VTO	10.45	11.0	11.55	5.0	20	150	1.0	0.1	8.0	23	0.07	CZ11V
CMXZ12VTO	11.40	12.0	12.60	5.0	25	150	1.0	0.1	8.0	21	0.07	CZ12V
CMXZ13VTO	12.35	13.0	13.65	5.0	30	170	1.0	0.1	8.0	19	0.08	CZ13V
CMXZ15VTO	14.25	15.0	15.75	5.0	30	200	1.0	0.05	10.5	17	0.08	CZ15V
CMXZ16VTO	15.20	16.0	16.80	5.0	40	200	1.0	0.05	11.2	16	0.08	CZ16V
CMXZ18VTO	17.10	18.0	18.90	5.0	45	225	1.0	0.05	12.6	14	0.08	CZ18V
CMXZ20VTO	19.0	20.0	21.0	5.0	55	225	1.0	0.05	14.0	12	0.08	CZ20V

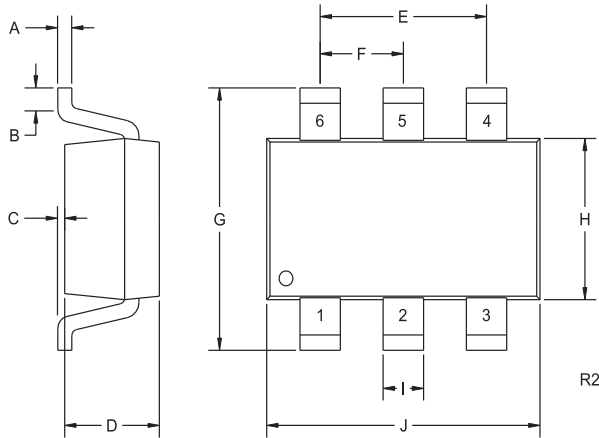
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	MIN	NOM	MAX		$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_R @ V_R$	$V_R$				
	V	V	V	mA	$\Omega$	$\Omega$	mA	$\mu A$	V	mA	% / °C	
CMXZ22VTO	20.90	22.0	23.10	5.0	55	250	1.0	0.05	15.4	11	0.09	CZ22V
CMXZ24VTO	22.80	24.0	25.20	5.0	70	250	1.0	0.05	16.8	10	0.09	CZ24V
CMXZ27VTO	25.65	27.0	28.35	2.0	80	300	0.5	0.05	18.9	9	0.09	CZ27V
CMXZ30VTO	28.50	30.0	31.50	2.0	80	300	0.5	0.05	21.0	8	0.09	CZ30V
CMXZ33VTO	31.35	33.0	34.65	2.0	80	325	0.5	0.05	23.1	7	0.09	CZ33V
CMXZ36VTO	34.20	36.0	37.80	2.0	90	350	0.5	0.05	25.2	6.9	0.09	CZ36V
CMXZ39VTO	37.05	39.0	40.95	2.0	130	350	0.5	0.05	27.3	6.4	0.09	CZ39V
CMXZ43VTO	40.85	43.0	45.15	2.0	150	375	0.5	0.05	30.1	5.8	0.10	CZ43V
CMXZ47VTO	44.65	47.0	49.35	2.0	170	375	0.5	0.05	32.9	5.3	0.10	CZ47V

SOT-26 CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.004	0.007	0.11	0.19
B	0.016	-	0.40	-
C	-	0.004	-	0.10
D	0.039	0.047	1.00	1.20
E	0.074	0.075	1.88	1.92
F	0.037	0.038	0.93	0.97
G	0.102	0.118	2.60	3.00
H	0.059	0.067	1.50	1.70
I	0.016		0.41	
J	0.110	0.118	2.80	3.00

SOT-26 (REV: R2)

LEAD CODE:

- 1) Anode D1
- 2) Cathode D2
- 3) Anode D3
- 4) Cathode D3
- 5) Anode D2
- 6) Cathode D1

R3 (12-February 2010)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2<sup>nd</sup> 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

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### 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).

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### CONTACT US

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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/terms)

# Product End of Life Notification

<b>PDN ID:</b>	PDN01130
<b>Notification Date:</b>	4/17/19
<b>Last Buy Date:</b>	10/17/19
<b>Last Shipment Date</b>	4/17/20

Summary: The CMXZ39VTO Zener diode is discontinued and now classified as End of Life (EOL).

Although Central Semiconductor Corp. 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 Management Process. 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.

<u>Central Part Number</u>	<u>Replacement</u>
CMXZ39VTO BK	N/A, Stock Only
CMXZ39VTO TR	N/A, Stock Only

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@centralsemi.com](mailto:engineering@centralsemi.com).

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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.