

CMXZ2V4TO THRU CMXZ47VTO

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

SUPERmini™



SOT-26 CASE



www.centralemi.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 350 mW
 T_J, T_{stg} -65 to +150 $^\circ\text{C}$
 θ_{JA} 357 $^\circ\text{C/W}$

UNITS

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. θ_{VZ}	MARKING CODE
	MIN	NOM	MAX		$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_R @ V_R$					
	V	V	V				Ω	Ω	μA			
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

R3 (12-February 2010)

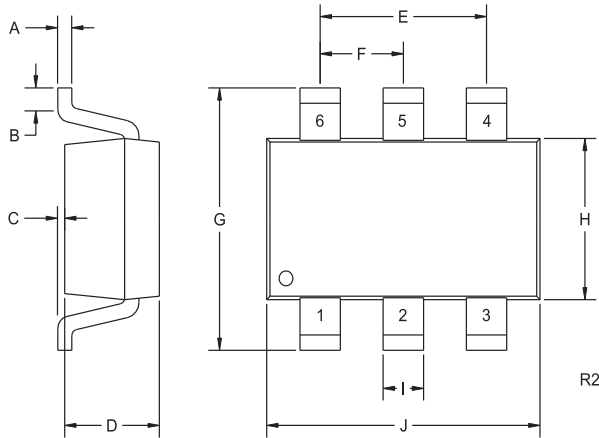
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TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT I_{ZT}	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT		MAXIMUM ZENER CURRENT I_{ZM}	MAXIMUM ZENER VOLTAGE TEMP. COEFF. θ_{VZ}	MARKING CODE
	MIN	NOM	MAX		$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$				
	V	V	V		mA	Ω	Ω	mA	μA			
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



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

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