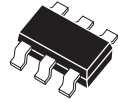


CMXZ2V4TO  
THRU  
CMXZ47VTO

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

SUPERmini™



SOT-26 CASE



**Central**™  
Semiconductor Corp.

**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<sub>A</sub>=25°C unless otherwise noted)

	SYMBOL	UNITS
Power Dissipation	P <sub>D</sub>	350 mW
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>	-65 to +150 °C
Thermal Resistance	θ <sub>JA</sub>	357 °C/W

**ELECTRICAL CHARACTERISTICS PER DIODE:** (T<sub>A</sub>=25°C), V<sub>F</sub>=0.9V MAX @ I<sub>F</sub>=10mA (for all types)

TYPE NO.	ZENER VOLTAGE V <sub>Z</sub> @ I <sub>ZT</sub>			TEST CURRENT I <sub>ZT</sub> mA	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT I <sub>R</sub> @ V <sub>R</sub>		MAXIMUM ZENER CURRENT I <sub>ZM</sub> mA	MAXIMUM ZENER VOLTAGE TEMP. COEFF. QV <sub>Z</sub> %/ °C	MARKING CODE
	MIN	NOM	MAX		Z <sub>ZT</sub> @ I <sub>ZT</sub>	Z <sub>ZK</sub> @ I <sub>ZK</sub>		I <sub>R</sub> @ V <sub>R</sub>				
	V	V	V		Ω	Ω	mA	μA	V			
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

\* Available on special order, consult factory.

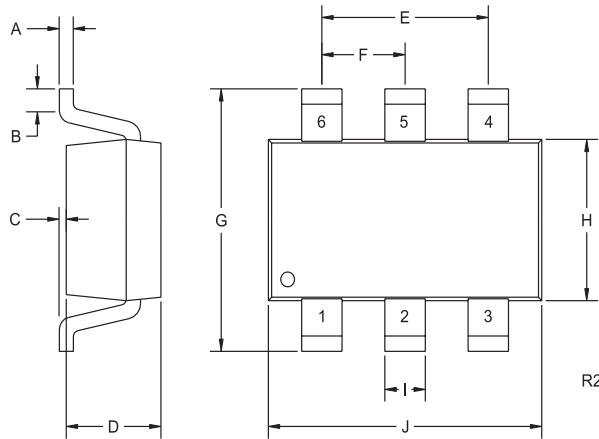
R2 (16-June 2008)

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

TYPE NO.	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. $QV_Z$	MARKING CODE
	MIN	NOM	MAX		$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_R @ V_R$	$I_{ZM}$				
	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

\* Available on special order, consult factory.

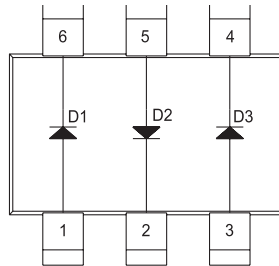
### SOT-26 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	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)

### PIN CONFIGURATION



### LEAD CODE:

- 1) ANODE D1
- 2) CATHODE D2
- 3) ANODE D3
- 4) CATHODE D3
- 5) ANODE D2
- 6) CATHODE D1

### MARKING CODE:

SEE ELECTRICAL  
CHARACTERISTICS TABLE

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