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.

www.centralsemi.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°C)	**SYMBOL**		**UNITS**
Power Dissipation	P_D	350	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	357	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C), V_F=0.9V MAX @ I_F=10mA (for all types)

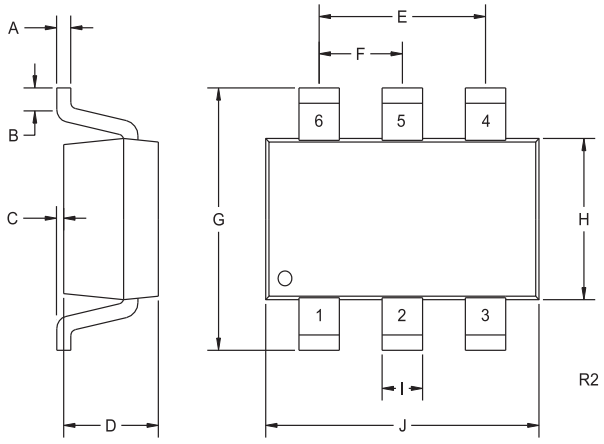
TYPE	ZENER VOLTAGE V_Z @ I_{ZT}			TEST CURRENT	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT		MAXIMUM ZENER CURRENT	MAXIMUM ZENER VOLTAGE TEMP. COEFF.	MARKING CODE
	MIN	NOM	MAX	I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}		I_R @ V_R		I_{ZM}	ΘV_Z	
	V	V	V	mA	Ω	Ω	mA	μA	V	mA	% / °C	
CMXZ2V4TO	2.280	2.4	2.520	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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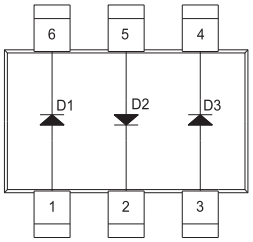
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	MIN	NOM	MAX	I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}		I_R @	V_R	I_{ZM}	ΘV_Z	
	V	V	V	mA	Ω	Ω	mA	μA	V	mA	% / °C	
CMXZ22VTO	20.90	22.0	23.10	5.0	55	250	1.0	0.05	15.4	11	0.09	CZ22V
CMXZ24VTO	22.80	24.0	25.20	5.0	70	250	1.0	0.05	16.8	10	0.09	CZ24V
CMXZ27VTO	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



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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)