CMSZDA2V4
THRU
CMSZDA47V

SURFACE MOUNT
DUAL, SILICON ZENER DIODE
2.4 VOLTS THRU 47 VOLTS
275mW

SUPERmini™



SOT-323 CASE

Central™
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSZDA2V4 Series silicon dual zener diode is a highly 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

MAXIMUM RATINGS: (T_A=25°C)

	SYMBOL		UNITS
Power Dissipation	P_D	275	mW
Operating and Storage Temperature	T_J, T_{stg}	-65 TO +150	°C
Thermal Resistance	Θ_{JA}	455	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C) V_F=0.9V MAX @ I_F=10mA FOR ALL TYPES.

TYPE NO.	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	MAX	I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}		I_R @ V_R		I_{ZM}	ΘV_Z	
	VOLTS	VOLTS	mA	Ω	Ω	mA	μA	VOLTS	mA	% / °C	
CMSZDA2V4	2.2	2.6	5.0	100	600	1.0	50	1.0	63	-0.06	W3W
CMSZDA2V7	2.5	2.9	5.0	100	600	1.0	20	1.0	57	-0.06	W4W
CMSZDA3V0	2.8	3.2	5.0	95	600	1.0	10	1.0	54	-0.06	W5W
CMSZDA3V3	3.1	3.5	5.0	95	600	1.0	5.0	1.0	47	-0.06	W6W
CMSZDA3V6	3.4	3.8	5.0	95	600	1.0	2.0	1.0	45	-0.06	W7W
CMSZDA3V9	3.7	4.1	5.0	90	600	1.0	2.0	1.0	43	-0.06	W8W
CMSZDA4V3	4.0	4.6	5.0	90	600	1.0	1.0	1.0	40	-0.05	W9W
CMSZDA4V7	4.4	5.0	5.0	80	500	1.0	3.0	2.0	38	-0.03	Z1Z
CMSZDA5V1	4.8	5.4	5.0	60	480	1.0	2.0	2.0	35	0.02	Z2Z
CMSZDA5V6	5.2	6.0	5.0	40	400	1.0	1.0	2.0	32	0.03	Z3Z
CMSZDA6V2	5.8	6.6	5.0	10	150	1.0	3.0	4.0	28	0.04	Z4Z
CMSZDA6V8	6.5	7.2	5.0	15	80	1.0	2.0	4.0	25	0.05	Z5Z
CMSZDA7V5	7.0	7.9	5.0	15	80	1.0	1.0	5.0	23	0.05	Z6Z
CMSZDA8V2	7.7	8.7	5.0	15	80	1.0	0.7	5.0	21	0.06	Z7Z
CMSZDA9V1	8.5	9.6	5.0	15	100	1.0	0.5	6.0	18	0.06	Z8Z
CMSZDA10V	9.4	10.6	5.0	20	150	1.0	0.2	7.0	16	0.07	Z9Z
CMSZDA11V	10.4	11.6	5.0	20	150	1.0	0.1	8.0	15	0.07	Y1Y
CMSZDA12V	11.4	12.7	5.0	25	150	1.0	0.1	8.0	13	0.07	Y2Y
CMSZDA13V	12.4	14.1	5.0	30	170	1.0	0.1	8.0	12	0.08	Y3Y
CMSZDA15V	13.8	15.6	5.0	30	200	1.0	0.05	10.5	11	0.08	Y4Y
CMSZDA16V	15.3	17.1	5.0	40	200	1.0	0.05	11.2	10	0.08	Y5Y

Central™
Semiconductor Corp.

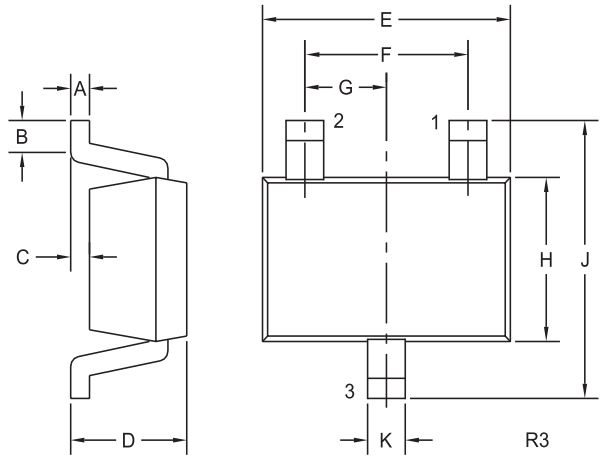
CMSZDA2V4
THRU
CMSZDA47V

SURFACE MOUNT
DUAL, SILICON ZENER DIODE
2.4 VOLTS THRU 47 VOLTS
275mW

ELECTRICAL CHARACTERISTICS PER DIODE (Continued)

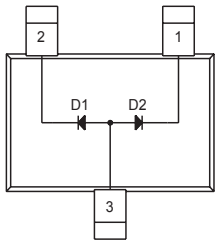
TYPE NO.	ZENER VOLTAGE V_Z @ I_{ZT}		TEST CURRENT	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT		MAXIMUM ZENER CURRENT	MAXIMUM ZENER VOLTAGE TEMP. COEFF.	MARKING CODE
	MIN	MAX	I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}		I_R @ V_R		I_{ZM}	ΘV_Z	
	VOLTS	VOLTS	mA	Ω	Ω	mA	μA	VOLTS	mA	% / °C	
CMSZDA18V	16.8	19.1	5.0	45	225	1.0	0.05	12.6	9.2	0.08	Y6Y
CMSZDA20V	18.8	21.2	5.0	55	225	1.0	0.05	14.0	8.3	0.08	Y7Y
CMSZDA22V	20.8	23.3	5.0	55	250	1.0	0.05	15.4	7.6	0.09	Y8Y
CMSZDA24V	22.8	25.6	5.0	70	250	1.0	0.05	16.8	7.0	0.09	Y9Y
CMSZDA27V	25.1	28.9	2.0	80	300	0.5	0.05	18.9	6.2	0.09	10W
CMSZDA30V	28.0	32.0	2.0	80	300	0.5	0.05	21.0	5.6	0.09	11W
CMSZDA33V	31.0	35.0	2.0	80	325	0.5	0.05	23.1	5.0	0.09	12W
CMSZDA36V	34.0	38.0	2.0	90	350	0.5	0.05	25.2	4.6	0.09	13W
CMSZDA39V	37.0	41.0	2.0	130	350	0.5	0.05	27.3	4.3	0.09	14W
CMSZDA43V	40.0	46.0	2.0	150	375	0.5	0.05	30.1	3.9	0.10	15W
CMSZDA47V	44.0	50.0	2.0	170	375	0.5	0.05	32.9	3.5	0.10	16W

SOT-323 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.002	0.008	0.05	0.20
B	0.004	-	0.10	-
C	-	0.004	-	0.10
D	0.031	0.043	0.80	1.10
E	0.071	0.087	1.80	2.20
F	0.051		1.30	
G	0.026		0.65	
H	0.045	0.053	1.15	1.35
J	0.079	0.087	2.00	2.20
K	0.008	0.016	0.20	0.40

SOT-323 (REV: R3)



LEAD CODE:
1) Cathode D2
2) Cathode D1
3) Anode D1, D2

MARKING CODE: See Marking Codes on Electrical Characteristics table.

R4 (4-January 2004)