

CMPZ4099
THRU
CMPZ4124

SURFACE MOUNT
LOW NOISE SILICON ZENER DIODE
6.8 VOLTS THRU 43 VOLTS
350mW, 5% TOLERANCE



SOT-23 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPZ4099 Series types are high quality silicon zener diodes designed for low leakage, low current and low noise applications.

NOTE: For lower voltage devices, see CMPZ4614 Series.

MARKING CODE: CONSULT FACTORY

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

Power Dissipation

Operating and Storage Junction Temperature

SYMBOL

P_D

T_J, T_{stg}

350

-65 to +150

UNITS

mW

$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted) $V_F=1.0\text{V MAX @ } I_F=200\text{mA}$ (for all types)

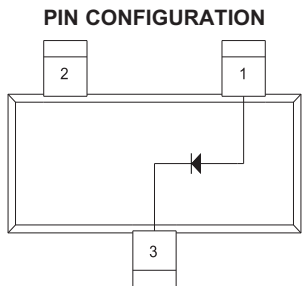
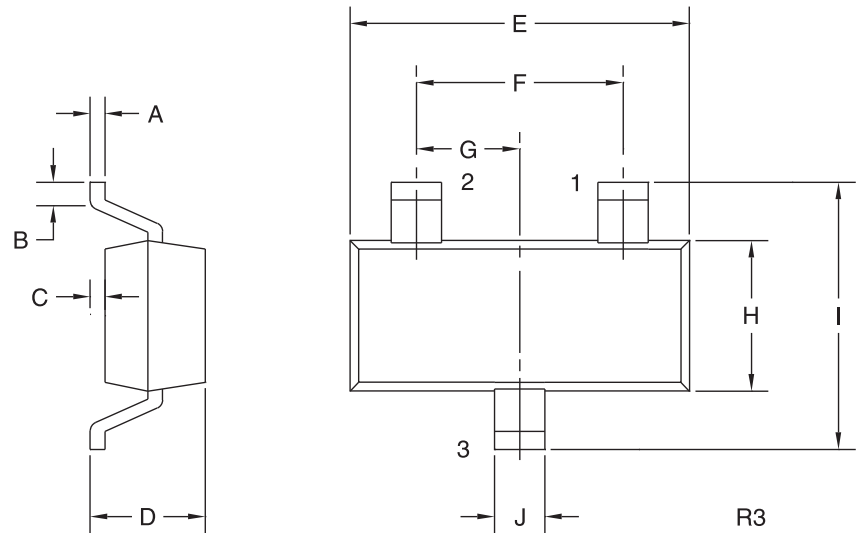
TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT I_{ZT}	MAXIMUM ZENER IMPEDANCE $Z_{ZT} @ I_{ZT}$	MAXIMUM REVERSE LEAKAGE CURRENT $I_R @ V_R$		MAXIMUM ZENER CURRENT I_{ZM}	MAXIMUM NOISE DENSITY $N_D @ I_{ZT}$
	MIN V	NOM V	MAX V	μA	Ω	μA	V	mA	$\mu\text{V}/\sqrt{\text{Hz}}$
CMPZ4099	6.460	6.8	7.140	250	200	10	5.2	35.0	40
CMPZ4100	7.125	7.5	7.865	250	200	10	5.7	31.8	40
CMPZ4101	7.790	8.2	8.610	250	200	1.0	6.3	29.0	40
CMPZ4102	8.265	8.7	9.135	250	200	1.0	6.7	27.4	40
CMPZ4103	8.645	9.1	9.555	250	200	1.0	7.0	26.2	40
CMPZ4104	9.500	10	10.50	250	200	1.0	7.6	24.8	40
CMPZ4105	10.45	11	11.55	250	200	0.05	8.5	21.6	40
CMPZ4106	11.40	12	12.60	250	200	0.05	9.2	20.4	40
CMPZ4107	12.35	13	13.65	250	200	0.05	9.9	19.0	40
CMPZ4108	13.30	14	14.70	250	200	0.05	10.7	17.5	40
CMPZ4109	14.25	15	15.75	250	100	0.05	11.4	16.3	40
CMPZ4110	15.20	16	16.80	250	100	0.05	12.2	15.4	40
CMPZ4111	16.15	17	17.85	250	100	0.05	13.0	14.5	40
CMPZ4112	17.10	18	18.90	250	100	0.05	13.7	13.2	40
CMPZ4113	18.05	19	19.95	250	150	0.05	14.5	12.5	40
CMPZ4114	19.00	20	21.00	250	150	0.01	15.2	11.9	40
CMPZ4115	20.90	22	23.10	250	150	0.01	16.8	10.8	40
CMPZ4116	22.80	24	25.20	250	150	0.01	18.3	9.9	40
CMPZ4117	23.75	25	26.25	250	150	0.01	19.0	9.5	40
CMPZ4118	25.65	27	28.35	250	150	0.01	20.5	8.8	40
CMPZ4119	26.60	28	29.40	250	200	0.01	21.3	8.5	40
CMPZ4120	28.50	30	31.50	250	200	0.01	22.8	7.9	40
CMPZ4121	31.35	33	34.65	250	200	0.01	25.1	7.2	40
CMPZ4122	34.20	36	37.80	250	200	0.01	27.4	6.6	40
CMPZ4123	37.05	39	40.95	250	200	0.01	29.7	6.1	40
CMPZ4124	40.85	43	45.15	250	250	0.01	32.7	5.5	40

R6 (3-February 2010)

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SOT-23 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Anode
- 2) No Connection
- 3) Cathode

MARKING CODE:
CONSULT FACTORY

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	0.035	0.043	0.89	1.09
E	0.110	0.120	2.80	3.05
F	0.075		1.90	
G	0.037		0.95	
H	0.047	0.055	1.19	1.40
I	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R3)

R6 (3-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

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