

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**

$P_D$  350

$T_J, T_{stg}$  -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)

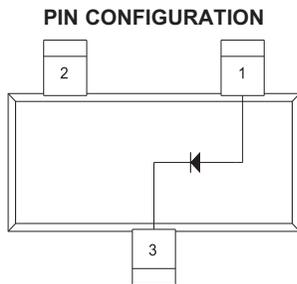
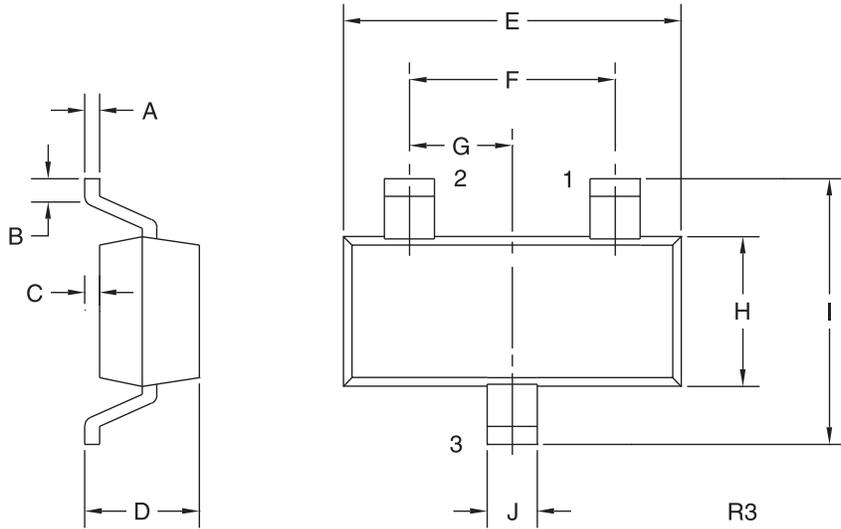
TYPE	ZENER VOLTAGE			TEST CURRENT	MAXIMUM ZENER IMPEDANCE	MAXIMUM REVERSE LEAKAGE CURRENT		MAXIMUM ZENER CURRENT	MAXIMUM NOISE DENSITY
	$V_Z @ I_{ZT}$					$I_{ZT}$	$I_R @ V_R$		
	MIN V	NOM V	MAX V	$\mu\text{A}$	$\Omega$	$\mu\text{A}$	V	mA	$\mu\text{V}/\sqrt{\text{Hz}}$
CMPZ4099	6.460	6.8	7.140	250	200	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**

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



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### 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

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### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> 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

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### 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).

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### CONTACT US

#### Corporate Headquarters & Customer Support Team

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**Worldwide Field Representatives:**  
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For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: [www.centrasemi.com/terms](http://www.centrasemi.com/terms)



<http://www.centrasemi.com>

# Product End of Life Notification

<b>PDN ID:</b>	PDN01127
<b>Notification Date:</b>	4/16/19
<b>Last Buy Date:</b>	10/16/19
<b>Last Shipment Date</b>	4/16/20

Summary: The CMPZ4101 Low Noise Zener diode is discontinued and is now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

<u>Central Part Number</u>	<u>Replacement</u>
CMPZ4101 BK	N/A, Stock Only
CMPZ4101 TR	N/A, Stock Only

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to [engineering@centrasemi.com](mailto:engineering@centrasemi.com).

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DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.