CMPZ4099
THRU
CMPZ4124

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



SOT-23 CASE

Central Semiconductor Corp.

www.centralsemi.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°C unless otherwise noted)	**SYMBOL**		**UNITS**
Power Dissipation	P_D	350	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C

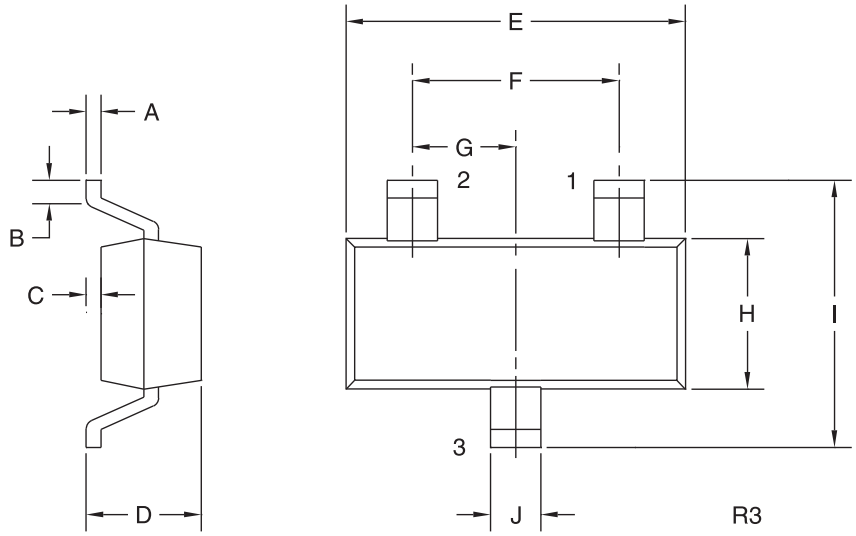
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted) V_F=1.0V MAX @ I_F=200mA (for all types)

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	µV/√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

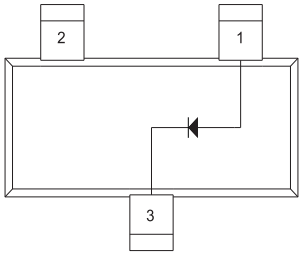
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SOT-23 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



LEAD CODE:
1) Anode
2) No Connection
3) Cathode

MARKING CODE:
CONSULT FACTORY

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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)