CMPZ4614
THRU
CMPZ4627

SURFACE MOUNT
LOW NOISE
SILICON ZENER DIODE
350mW, 5% TOLERANCE

SOT-23 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPZ4614 series devices are high quality silicon zener diodes designed for low leakage, low current and low noise applications.

MARKING CODE: SEE ELECTRICAL CHARACTERISTICS TABLE

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	NOMINAL 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}	MARKING CODE
	V	µA	Ω	µA	V	mA	µV/√Hz	
CMPZ4614	1.8	250	1200	7.5	1.0	120	1.0	C6A
CMPZ4615	2.0	250	1250	5.0	1.0	110	1.0	C6B
CMPZ4616	2.2	250	1300	4.0	1.0	100	1.0	C6C
CMPZ4617	2.4	250	1400	2.0	1.0	95	1.0	C6D
CMPZ4618	2.7	250	1500	1.0	1.0	90	1.0	C6E
CMPZ4619	3.0	250	1600	0.8	1.0	85	1.0	C6F
CMPZ4620	3.3	250	1650	7.5	1.5	80	1.0	C6G
CMPZ4621	3.6	250	1700	7.5	2.0	75	1.0	C6H
CMPZ4622	3.9	250	1650	5.0	2.0	70	1.0	C6J
CMPZ4623	4.3	250	1600	4.0	2.0	65	1.0	C6K
CMPZ4624	4.7	250	1550	10	3.0	60	1.0	C6L
CMPZ4625	5.1	250	1500	10	3.0	55	2.0	C6M
CMPZ4626	5.6	250	1400	10	4.0	50	4.0	C6N
CMPZ4627	6.2	250	1200	10	5.0	45	5.0	C6P

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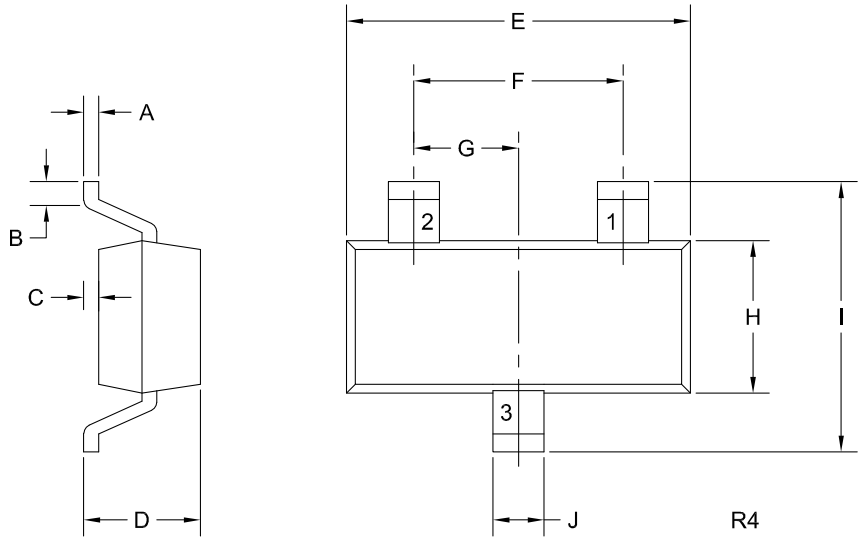
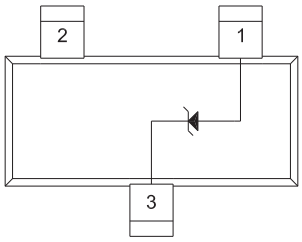
SOT-23 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



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

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	0.044	0.89	1.12
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	0.104	2.10	2.64
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R4)

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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