

CMHZ4614  
THRU  
CMHZ4627

500mW LOW NOISE ZENER DIODE  
5% TOLERANCE



SOD-123 CASE

**Central**<sup>TM</sup>  
**Semiconductor Corp.**

#### DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMHZ4614 Series Silicon Zener Diode is a high quality voltage regulator designed for low leakage, low current and low noise applications.

#### ABSOLUTE MAXIMUM RATINGS:

Power Dissipation (@ $T_L=75^{\circ}\text{C}$ )  
Storage Temperature Range  
Maximum Junction Temperature  
Thermal Resistance

#### SYMBOL

$P_D$  500  
 $T_{stg}$  -65 to +175  
 $T_J$  +150  
 $\Theta_{JL}$  150

#### UNIT

mW  
 $^{\circ}\text{C}$   
 $^{\circ}\text{C}$   
 $^{\circ}\text{C/W}$

**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^{\circ}\text{C}$ )  $V_F=1.5\text{V MAX @ } I_F=100\text{mA}$  FOR ALL TYPES

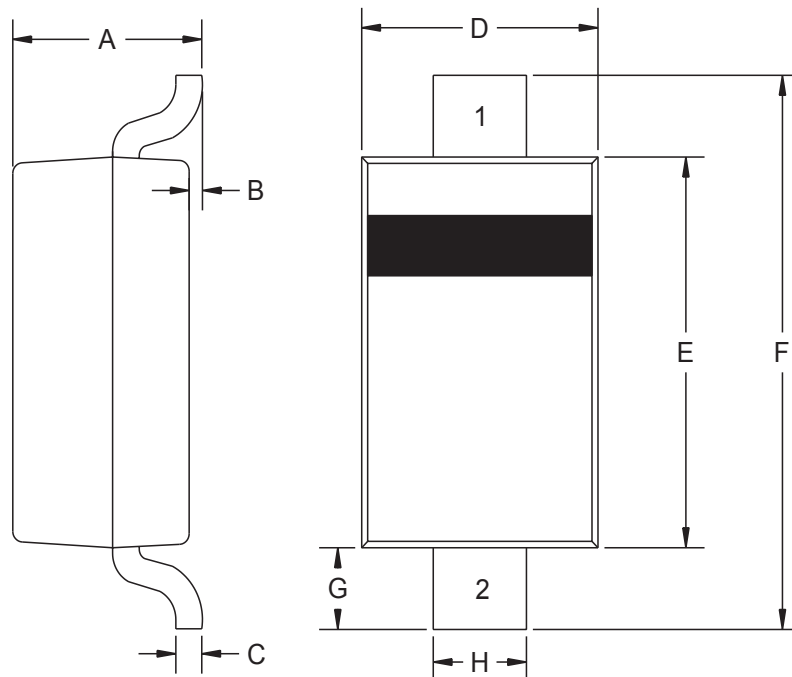
TYPE NO.	ZENER VOLTAGE			TEST CURRENT	MAXIMUM ZENER IMPEDANCE	MAXIMUM REVERSE LEAKAGE CURRENT		MAXIMUM ZENER CURRENT	MAXIMUM NOISE DENSITY	MARKING CODE
	$V_Z@Z_T$									
	MIN	NOM	MAX	$I_{ZT}$	$Z_{ZT}@Z_T$	$I_R@V_R$		$I_{ZM}$	$N_D@I_{ZT}=250\mu A$	
	VOLTS	VOLTS	VOLTS	$\mu A$	$\Omega$	$\mu A$	VOLTS	mA	$\mu V/\sqrt{Hz}$	
CMHZ4614*	1.710	1.8	1.890	250	1200	7.5	1.0	120	1.0	CHC
CMHZ4615*	1.900	2.0	2.100	250	1250	5.0	1.0	110	1.0	CHD
CMHZ4616*	2.090	2.2	2.310	250	1300	4.0	1.0	100	1.0	CHE
CMHZ4617*	2.280	2.4	2.520	250	1400	2.0	1.0	95	1.0	CHF
CMHZ4618*	2.565	2.7	2.835	250	1500	1.0	1.0	90	1.0	CHH
CMHZ4619*	2.850	3.0	3.150	250	1600	0.8	1.0	85	1.0	CHJ
CMHZ4620*	3.135	3.3	3.465	250	1650	7.5	1.5	80	1.0	CHK
CMHZ4621*	3.420	3.6	3.780	250	1700	7.5	2.0	75	1.0	CHM
CMHZ4622*	3.705	3.9	4.095	250	1650	5.0	2.0	70	1.0	CHN
CMHZ4623*	4.085	4.3	4.515	250	1600	4.0	2.0	65	1.0	CHP
CMHZ4624*	4.465	4.7	4.935	250	1550	10	3.0	60	1.0	CHT
CMHZ4625*	4.845	5.1	5.355	250	1500	10	3.0	55	2.0	CHU
CMHZ4626*	5.320	5.6	5.880	250	1400	10	4.0	50	4.0	CHV
CMHZ4627*	5.890	6.2	6.510	250	1200	10	5.0	45	5.0	CHA

\*Available on special order; consult factory.

R0 ( 11-September 2001)

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SOD-123 CASE - MECHANICAL OUTLINE



R3

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.037	0.053	0.95	1.35
B	-	0.005	-	0.12
C	-	0.008	-	0.20
D	0.055	0.071	1.40	1.80
E	0.098	0.112	2.50	2.84
F	0.140	0.154	3.55	3.90
G	0.010	-	0.25	-
H	0.020	0.028	0.50	0.70

SOD-123 (REV:R3)

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