



CMLSH2-4LA CMLSH2-4LS

CMLSH2-4LC CMLSH2-4LSB

SURFACE MOUNT
DUAL PAIR, LOW V_F
SILICON SCHOTTKY DIODES

PICOmini™



SOT-563 CASE

- Devices are *Halogen Free* by design

DEVICE CONFIGURATIONS:

CMLSH2-4LA	DUAL PAIR, COMMON ANODE
CMLSH2-4LC	DUAL PAIR, COMMON CATHODE
CMLSH2-4LS	DUAL PAIR, IN SERIES
CMLSH2-4LSB	DUAL PAIR, IN SERIES

MARKING CODE: 4AL

MARKING CODE: 4CL

MARKING CODE: 4SL

MARKING CODE: 4SB

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

Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Continuous Forward Current	I_F	200	mA
Peak Repetitive Forward Current	I_{FRM}	300	mA
Forward Surge Current, $t_p=10\text{ms}$	I_{FSM}	600	mA
Power Dissipation (Note 1)	P_D	350	mW
Power Dissipation (Note 2)	P_D	300	mW
Power Dissipation (Note 3)	P_D	150	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	$^\circ\text{C}$
Thermal Resistance (Note 1)	Θ_{JA}	357	$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS PER DIODE: ($T_A=25^\circ\text{C}$ unless otherwise noted)

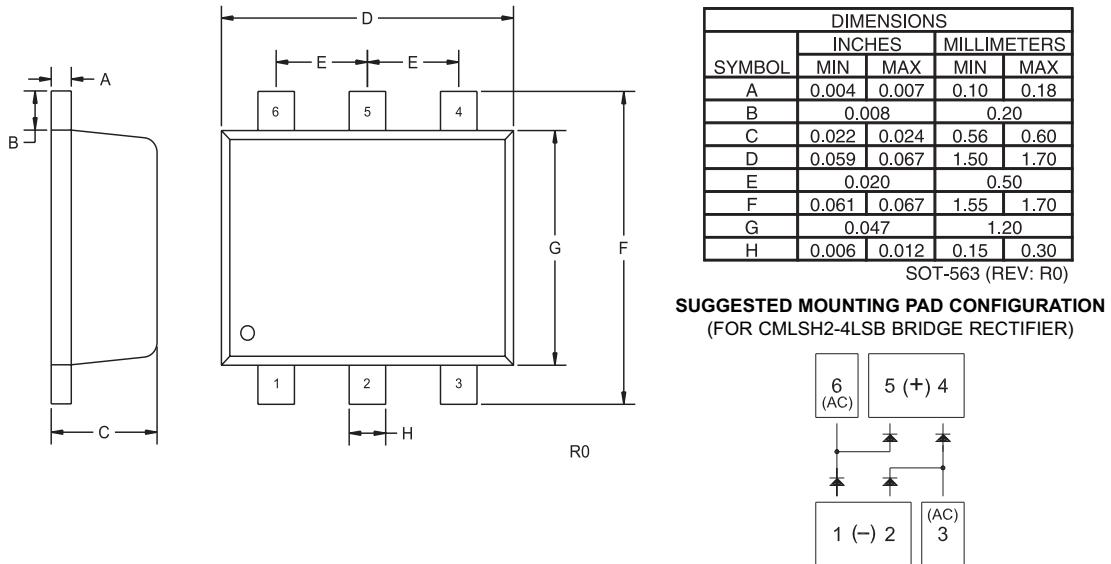
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
I_R	$V_R=30\text{V}$		100	200	nA
BV_R	$I_R=100\mu\text{A}$	40	55		V
V_F	$I_F=100\mu\text{A}$		0.24	0.26	V
V_F	$I_F=500\mu\text{A}$		0.29	0.31	V
V_F	$I_F=1.0\text{mA}$		0.31	0.33	V
V_F	$I_F=50\text{mA}$		0.54	0.60	V
V_F	$I_F=100\text{mA}$		0.67	0.75	V
C_T	$V_R=1.0\text{V}, f=1.0\text{MHz}$			10	pF
t_{rr}	$I_F=I_R=10\text{mA}, I_{rr}=1.0\text{mA}, R_L=100\Omega$			5.0	ns

Notes: (1) Ceramic or aluminum core PC Board with copper mounting pad area of 4.0 mm^2 (2) FR-4 Epoxy PC Board with copper mounting pad area of 4.0 mm^2 (3) FR-4 Epoxy PC Board with copper mounting pad area of 1.4 mm^2 **Central**™
Semiconductor Corp.**DESCRIPTION:**

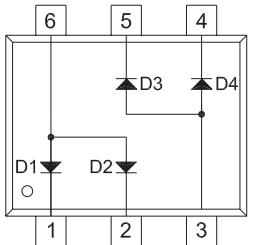
The CENTRAL SEMICONDUCTOR CMLSH2-4L Series consists of Dual pairs of Common Anode, Common Cathode, and In-Series Low V_F Schottky Diodes, manufactured in a PICOMini™ SOT-563 surface mount package.

SURFACE MOUNT
DUAL PAIR, LOW VF
SILICON SCHOTTKY DIODES

SOT-563 CASE - MECHANICAL OUTLINE



PIN CONFIGURATIONS

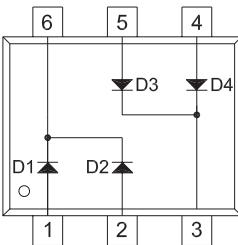


CMLSH2-4LA

LEAD CODE:

- 1) CATHODE D1
- 2) CATHODE D2
- 3) ANODE D3, D4
- 4) CATHODE D4
- 5) CATHODE D3
- 6) ANODE D1, D2

MARKING CODE: 4AL

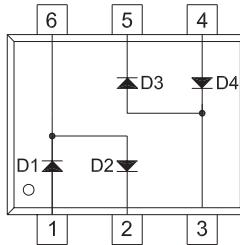


CMLSH2-4LC

LEAD CODE:

- 1) ANODE D1
- 2) ANODE D2
- 3) CATHODE D3, D4
- 4) ANODE D4
- 5) ANODE D3
- 6) CATHODE D1, D2

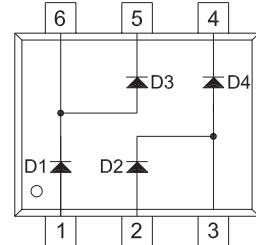
MARKING CODE: 4CL



CMLSH2-4LS

LEAD CODE:

- 1) ANODE D1
 - 2) CATHODE D2
 - 3) ANODE D3, CATHODE D4
 - 4) ANODE D4
 - 5) CATHODE D3
 - 6) CATHODE D1, ANODE D2
- MARKING CODE: 4SL**



CMLSH2-4LSB

LEAD CODE:

- 1) ANODE D1
 - 2) ANODE D2
 - 3) CATHODE D2, ANODE D4
 - 4) CATHODE D4
 - 5) CATHODE D3
 - 6) CATHODE D1, ANODE D3
- MARKING CODE: 4SB**

Typical Electrical Characteristics
Surface Mount
Dual Pair, Low V_F
Silicon Schottky Diodes

