

CMLD6263A
CMLD6263C
CMLD6263S

**SURFACE MOUNT PICOmini™
DUAL PAIR, HIGH VOLTAGE
SILICON SCHOTTKY DIODES**

PICOmini™



SOT-563 CASE

Central™
Semiconductor Corp.

FEATURES:

- HIGH VOLTAGE (70V)
- LOW FORWARD VOLTAGE
- VARIOUS DUAL PAIR CONFIGURATIONS

CMLD6263A Dual Pair, Common Anode
CMLD6263C Dual Pair, Common Cathode
CMLD6263S Dual Pair, In Series

Marking Code: 63A
Marking Code: 63C
Marking Code: 63S

DESCRIPTION:

The Central Semiconductor CMLD6263 Series incorporates two pair, high voltage, low V_F Silicon Diodes in a space saving SOT-563 surface mount package. These diodes are designed for fast switching applications requiring a low forward voltage drop.

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

	<u>SYMBOL</u>		<u>UNITS</u>
Peak Repetitive Reverse Voltage	V_{RRM}	70	V
Continuous Forward Current	I_F	15	mA
Forward Surge Current, $t_p=1.0$ s	I_{FSM}	50	mA
Power Dissipation	P_D	250	mW
Operating and Storage			
Junction Temperature	T_J, T_{stg}	-65 to +150	$^\circ\text{C}$
Thermal Resistance	θ_{JA}	500	$^\circ\text{C/W}$

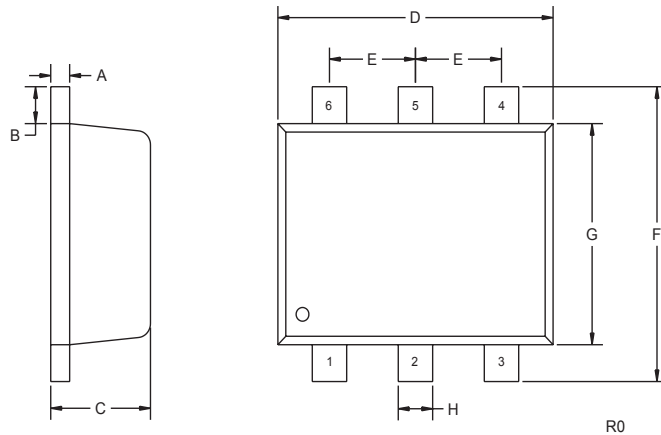
ELECTRICAL CHARACTERISTICS PER DIODE: ($T_A=25^\circ\text{C}$)

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>TYP</u>	<u>MAX</u>	<u>UNITS</u>
I_R	$V_R=50\text{V}$		98	200	nA
BV_R	$I_R=10\mu\text{A}$	70			V
V_F	$I_F=1.0\text{mA}$		395	410	mV
C_T	$V_R=0\text{V}, f=1.0\text{MHz}$			2.0	pF
t_{rr}	$I_R=I_F=10\text{mA}, I_{rr}=1.0\text{mA}, R_L=100\Omega$			5.0	ns

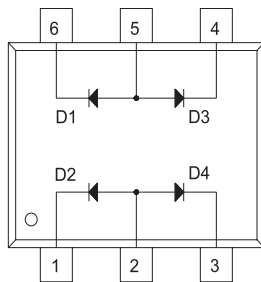
SOT-563 CASE - MECHANICAL OUTLINE

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.004	0.007	0.10	0.18
B	0.008		0.20	
C	0.022	0.024	0.56	0.60
D	0.059	0.067	1.50	1.70
E	0.020		0.50	
F	0.061	0.067	1.55	1.70
G	0.047		1.20	
H	0.006	0.012	0.15	0.30

SOT-563 (REV: R0)



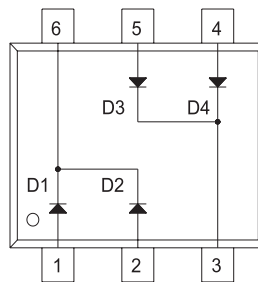
Pin Configuration



CMLD6263A
Marking Code: 63A

Lead Code:

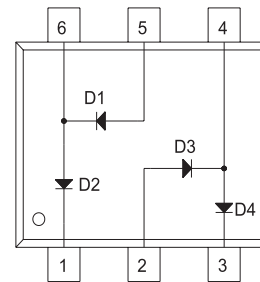
- 1) Cathode D2
- 2) Anode D2, D4
- 3) Cathode D4
- 4) Cathode D3
- 5) Anode D1, D3
- 6) Cathode D1



CMLD6263C
Marking Code: 63C

Lead Code:

- 1) Anode D1
- 2) Anode D2
- 3) Cathode D3, D4
- 4) Anode D4
- 5) Anode D3
- 6) Cathode D1, D2



CMLD6263S
Marking Code: 63S

Lead Code:

- 1) Cathode D2
- 2) Anode D3
- 3) Cathode D4
- 4) Cathode D3, Anode D4
- 5) Anode D1
- 6) Cathode D1, Anode D2