

CMLD6263A  
CMLD6263C  
CMLD6263S

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

PICOmini™



SOT-563 CASE

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

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

# Central™ Semiconductor Corp.

## FEATURES:

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

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

Peak Repetitive Reverse Voltage  
Continuous Forward Current  
Forward Surge Current,  $t_p=1.0$  s  
Power Dissipation  
Operating and Storage  
Junction Temperature  
Thermal Resistance

SYMBOL		UNITS
$V_{RRM}$	70	V
$I_F$	15	mA
$I_{FSM}$	50	mA
$P_D$	250	mW
$T_J, T_{stg}$	-65 to +150	$^\circ\text{C}$
$\theta_{JA}$	500	$^\circ\text{C/W}$

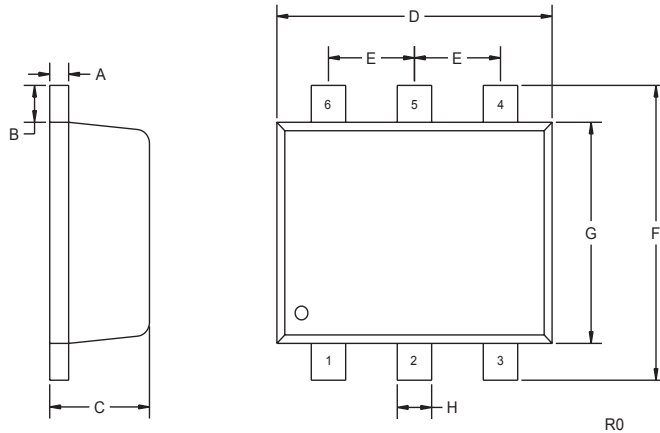
## ELECTRICAL CHARACTERISTICS PER DIODE: ( $T_A=25^\circ\text{C}$ )

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$I_R$	$V_R=50\text{V}$		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

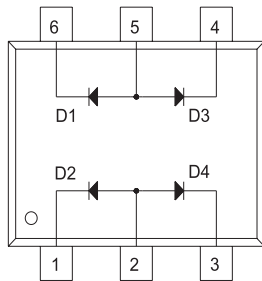
**SOT-563 CASE - MECHANICAL OUTLINE**

DIMENSIONS				
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)



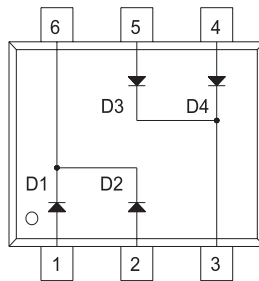
**Pin Configuration**



**CMLD6263A**  
**Marking Code: 63A**

**Lead Code:**

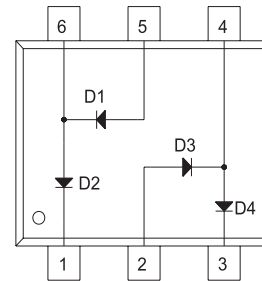
- 1) Cathode D2
- 2) Anode D2, D4
- 3) Cathode D4
- 4) Cathode D3
- 5) Anode D1, D3
- 6) Cathode D1



**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