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Stocking Distributor

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[Central Semiconductor Corp](#)

[CMLD6263C TR](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

CMLD6263A
 CMLD6263C
 CMLD6263S

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



SOT-563 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMLD6263A 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.

MARKING CODES:

CMLD6263A: 63A or 3A
CMLD6263C: 63C
CMLD6263S: 63S or 3S

FEATURES:

- High Voltage (70V)
- Low Forward Voltage
- Various Dual Pair Configurations

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

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	70	V
Continuous Forward Current	I_F	15	mA
Peak Forward Surge Current, $t_p=1.0s$	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: ($T_A=25^\circ\text{C}$ unless otherwise noted)

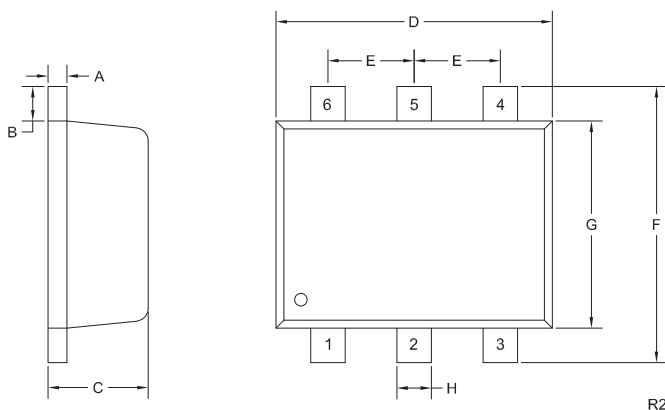
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=50V$		10	200	nA
BV_R	$I_R=10\mu\text{A}$	70			V
V_F	$I_F=1.0\text{mA}$		395	410	mV
C_J	$V_R=0, f=1.0\text{MHz}$			2.0	pF
t_{rr}	$I_R=I_F=10\text{mA}, I_{rr}=1.0\text{mA}, R_L=100\Omega$			5.0	ns



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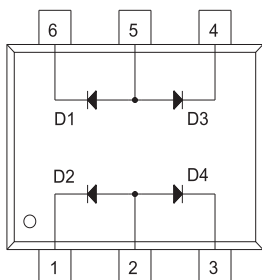
SOT-563 CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.0027	0.007	0.07	0.18
B	0.008		0.20	
C	0.017	0.024	0.45	0.60
D	0.059	0.067	1.50	1.70
E	0.020		0.50	
F	0.059	0.067	1.50	1.70
G	0.043	0.051	1.10	1.30
H	0.006	0.012	0.15	0.30

SOT-563 (REV: R2)

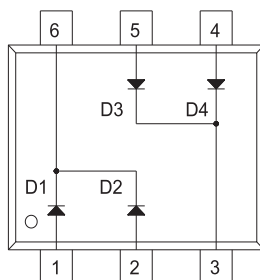
PIN CONFIGURATIONS



**CMLD6263A
 COMMON ANODE**

- LEAD CODE:**
- 1) Cathode D2
 - 2) Anode D2, D4
 - 3) Cathode D4
 - 4) Cathode D3
 - 5) Anode D1, D3
 - 6) Cathode D1

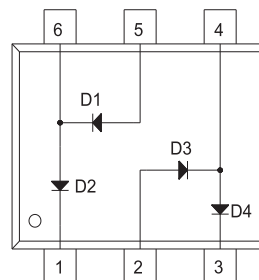
MARKING CODE: 63A or 3A



**CMLD6263C
 COMMON CATHODE**

- LEAD CODE:**
- 1) Anode D1
 - 2) Anode D2
 - 3) Cathode D3, D4
 - 4) Anode D4
 - 5) Anode D3
 - 6) Cathode D1, D2

MARKING CODE: 63C



**CMLD6263S
 IN SERIES**

- LEAD CODE:**
- 1) Cathode D2
 - 2) Anode D3
 - 3) Cathode D4
 - 4) Cathode D3, Anode D4
 - 5) Anode D1
 - 6) Cathode D1, Anode D2

MARKING CODE: 63S or 3S

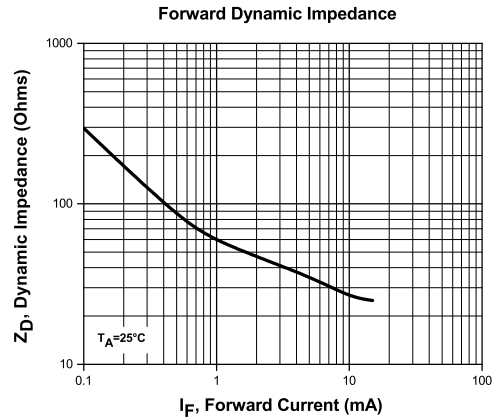
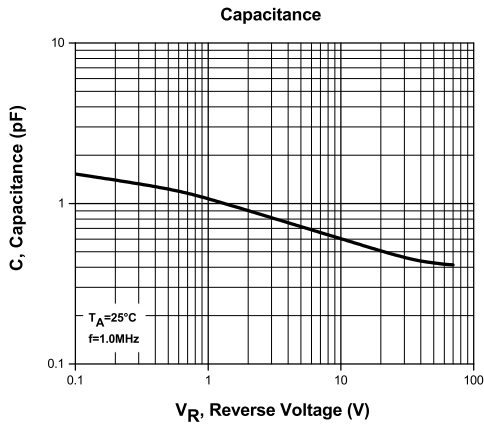
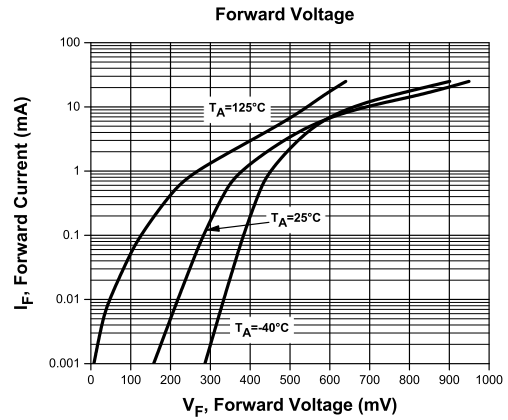
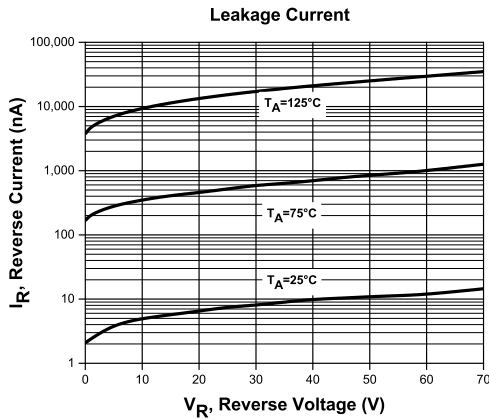
R6 (11-December 2015)

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TYPICAL ELECTRICAL CHARACTERISTICS



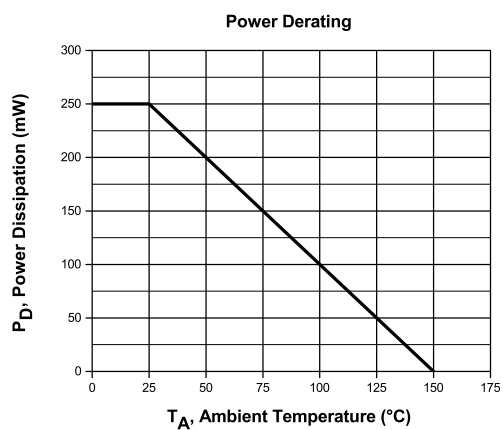
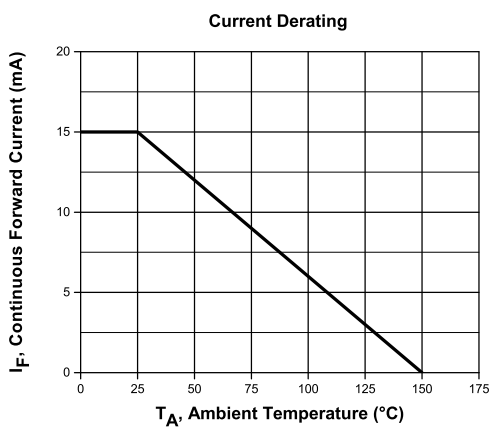
R6 (11-December 2015)

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TYPICAL ELECTRICAL CHARACTERISTICS



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

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.
145 Adams Avenue
Hauppauge, NY 11788 USA
Main Tel: (631) 435-1110
Main Fax: (631) 435-1824
Support Team Fax: (631) 435-3388
www.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

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