

SURFACE MOUNT SILICON DUAL, ISOLATED ULTRA LOW LEAKAGE SWITCHING DIODE





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## DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMLD6001 type contains two (2) isolated silicon switching diodes, manufactured by the epitaxial planar process, epoxy molded in an SOT-563 surface mount package. These devices are designed for switching applications requiring extremely low leakage.

### MARKING CODE: C6D or 6D

MAXIMUM RATINGS: (T <sub>A</sub> =25°C) Continuous Reverse Voltage	SYMBOL V <sub>R</sub>	75	UNITS V
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	100	V
Continuous Forward Current	١ <sub>F</sub>	250	mA
Peak Forward Surge Current, tp=1.0µs	IFSM	4.0	А
Peak Forward Surge Current, tp=1.0s	IFSM	1.0	А
Power Dissipation	PD	250	mW
Operating and Storage Junction Temperature	т <sub>Ј</sub> , т <sub>stg</sub>	-65 to +150	°C
Thermal Resistance	ΘJĄ	500	°C/W
ELECTRICAL CHARACTERISTICS PER DIODE: (T <sub>A</sub> =25°C unless otherwise noted)			

	SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
	IR	V <sub>R</sub> =75V		500	pA
	BVR	Ι <sub>R</sub> =100μΑ	100		V
	V <sub>F</sub>	I <sub>F</sub> =1.0mA		0.85	V
	V <sub>F</sub>	I <sub>F</sub> =10mA		0.95	V
	VF	I <sub>F</sub> =100mA		1.1	V
	СЈ	V <sub>R</sub> =0, f=1.0MHz		2.0	pF
	t <sub>rr</sub>	I <sub>R</sub> =I <sub>F</sub> =10mA, I <sub>rr</sub> =1.0mA, R <sub>L</sub> =100Ω		3.0	μs

R6 (15-June 2015)

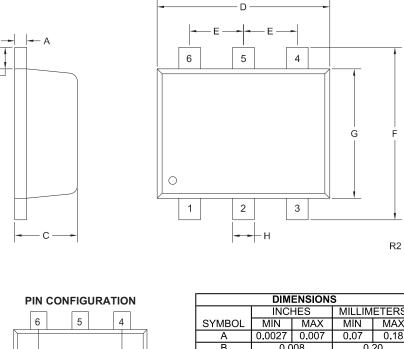


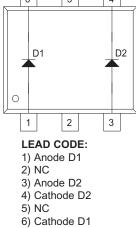


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## SOT-563 CASE - MECHANICAL OUTLINE





MARKING CODE: C6D or 6D

DIMENSIONS				
	INCHES		MILLIM	ETERS
SYMBOL	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
Н	0.006	0.012	0.15	0.30
SOT-563 (REV: R2)				

R6 (15-June 2015)

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# **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 (2<sup>nd</sup> 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**

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# Product End of Life Notification

PDN ID:	PDN01063 Rev:001
Notification Date:	3/03/17
Last Buy Date:	N/A
Last Shipment Date	N/A

# http://www.centralsemi.com

Please be advised that Central Semiconductor must immediately discontinue the product(s) listed in the attached PDN notice. We are unable to accept any further orders for these products **unless** we have available inventory on hand.

You may have purchased one or more of the products listed. Please do not hesitate to contact your local Central Semiconductor sales representative with any questions or needs you may have. Central regrets any inconvenience this may cause.

Sincerely,

Central Semiconductor Corp.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.



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# Product End of Life Notification

PDN ID:	PDN01063 Rev:001
Notification Date:	3/03/17
Last Buy Date:	N/A
Last Shipment Date	N/A

Summary:All devices manufactured in the SOT-563 package, using the Option 2 Lead Frame, are discontinued and now classified as End of Life (EOL). Rev001 issued to include BK devices previously excluded in error.

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by various manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

Central Part Number	Replacement
CMLD2004G BK	N/Ā
CMLD2004G TR	N/A
CMLD4448 BK	N/A
CMLD4448 TR	N/A
CMLD6001 BK	N/A
CMLD6001 TR	N/A
CMLD6263 BK	N/A
CMLD6263 TR	N/A
CMLD6263S BK	N/A
CMLD6263S TR	N/A
CMLSH-4 BK	N/A
CMLSH-4 TR	N/A
CMLZDA3V3 BK	N/A
CMLZDA3V3 TR	N/A
CMLZDA6V2 BK	N/A
CMLZDA6V2 TR	N/A

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centralsemi.com.

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