CMLD3003DO CMLD3003DOG

SURFACE MOUNT SILICON DUAL, ISOLATED, OPPOSING LOW LEAKAGE SWITCHING DIODES



• The CMLD3003DOG is *Halogen Free* by design



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMLD3003DO and CMLD3003DOG devices contain two (2) isolated opposing configuration, 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 CODES: CMLD3003DO: C30 CMLD3003DOG: 3CG

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	v_R	180	V
Average Rectified Current	IO	200	mA
Continuous Forward Current	I _F	600	mA
Peak Repetitive Forward Current	I _{FRM}	700	mA
Peak Forward Surge Current, tp=1.0µs	I _{FSM}	2.0	Α
Peak Forward Surge Current, tp=1.0s	I _{FSM}	1.0	Α
Power Dissipation	P_{D}	250	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	ΘιΔ	500	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

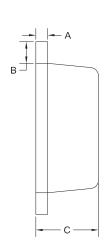
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
		IVIIIA		
^I R	V _R =125V		1.0	nA
I_{R}	V _R =125V, T _A =150°C		3.0	μΑ
I_{R}	V _R =180V		10	nA
I_{R}	V _R =180V, T _A =150°C		5.0	μΑ
BV_R	I _R =5.0μA	200		V
V_{F}	I _F =1.0mA	0.62	0.72	V
V_{F}	I _F =10mA	0.72	0.83	V
V_{F}	I _F =50mA	0.80	0.89	V
V_{F}	I _F =100mA	0.83	0.93	V
V_{F}	I _F =200mA	0.87	1.10	V
V_{F}	I _F =300mA	0.90	1.15	V
Cı	V _R =0, f=1.0MHz		4.0	pF

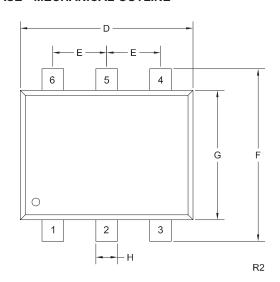
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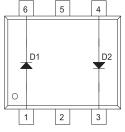


SOT-563 CASE - MECHANICAL OUTLINE





PIN CONFIGURATION



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.0027	0.007	0.07	0.18			
В	0.008		0.20				
С	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)							

LEAD CODE:1) Anode D1

2) NC

3) Cathode D2

4) Anode D2

5) NC

6) Cathode D1

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R4 (15-June 2015)

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.centralsemi.com Worldwide Field Representatives: www.centralsemi.com/wwreps

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