

CMLD3003DO

• The CMLD3003DOG is Halogen Free by design

Central Semiconductor Corp.

www.centralsemi.com

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	VR	180	V
Average Rectified Current	IO	200	mA
Continuous Forward Current	١ _F	600	mA
Peak Repetitive Forward Current	^I FRM	700	mA
Peak Forward Surge Current, tp=1.0µs	IFSM	2.0	А
Peak Forward Surge Current, tp=1.0s	IFSM	1.0	А
Power Dissipation	PD	250	mW
Operating and Storage Junction Temperature	TJ, T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
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	μA
BVR	I _R =5.0μΑ	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
СЈ	V _R =0, f=1.0MHz		4.0	pF

R4 (15-June 2015)





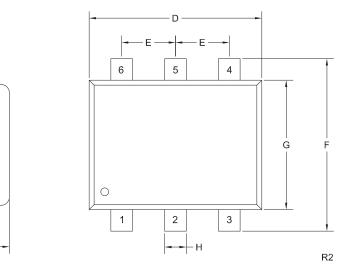
SURFACE MOUNT SILICON DUAL, ISOLATED, OPPOSING LOW LEAKAGE SWITCHING DIODES

- A

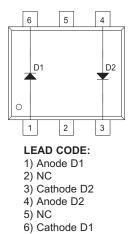
С

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SOT-563 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
A	0.0027	0.007	0.07	0.18			
В	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)							

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SERVICES

- · Bonded Inventory
- Custom Electrical Screening
- Custom Electrical Characteristic Curves
- SPICE Models
- Custom Packaging
- Package Base Options
- Custom Device Development/Multi Discrete Modules (MDM[™])
- Bare Die Available for Hybrid Applications

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R4 (15-June 2015)

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