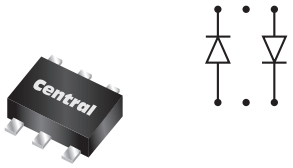
CMLD3003DO
CMLD3003DOG

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



SOT-563 CASE

• 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	V_R	180	V
Average Rectified Current	I_O	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	A
Peak Forward Surge Current, tp=1.0s	I_{FSM}	1.0	A
Power Dissipation	P_D	250	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

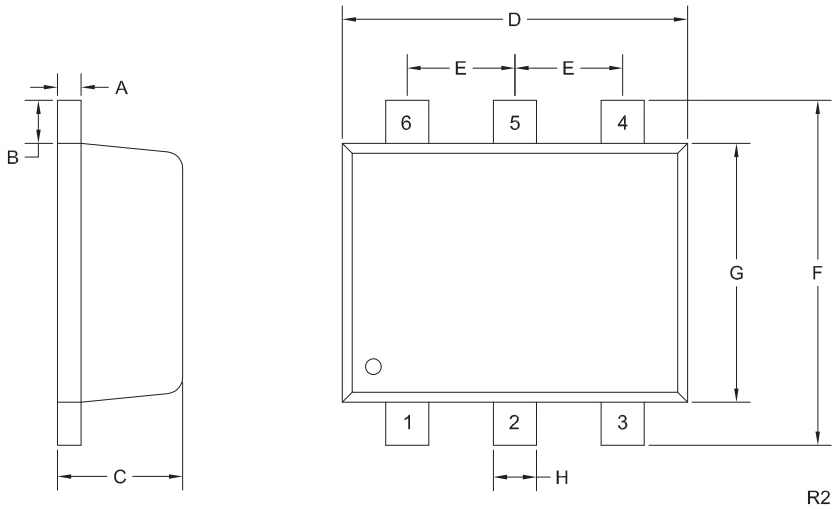
ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

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	μA
I_R	V_R=180V		10	nA
I_R	V_R=180V, T_A=150°C		5.0	μA
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
C_J	V_R=0, f=1.0MHz		4.0	pF

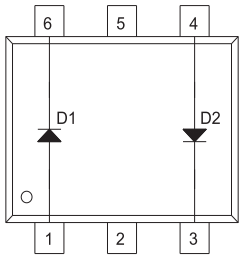
CMLD3003DO
CMLD3003DOG

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

SOT-563 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



LEAD CODE:
1) Anode D1
2) NC
3) Cathode D2
4) Anode D2
5) NC
6) Cathode D1

DIMENSIONS				
	INCHES		MILLIMETERS	
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
H	0.006	0.012	0.15	0.30

SOT-563 (REV: R2)

MARKING CODES:
CMLD3003DO: C30
CMLD3003DOG: 3CG

CMLD3003DO
CMLD3003DOG

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

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)