CMLD2004G

SURFACE MOUNT SILICON DUAL, ISOLATED HIGH VOLTAGE SWITCHING DIODE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMLD2004G contains two (2) isolated high voltage silicon switching diodes, manufactured by the epitaxial planar process, epoxy molded in an SOT-563 surface mount package. These devices are designed for applications requiring high voltage capability.

MARKING CODE: DG



SOT-563 CASE

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	V_{R}	240	V
Peak Repetitive Reverse Voltage	V_{RRM}	300	V
Peak Repetitive Reverse Current	IO	200	mA
Continuous Forward Current	Ι _F	225	mA
Peak Repetitive Forward Current	IFRM	625	mA
Peak Forward Surge Current, tp=1.0μs	I _{FSM}	4.0	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	Θ_{JA}	500	°C/W

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

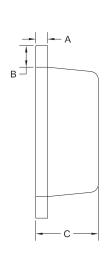
SYMBOL I _R	TEST CONDITIONS V _R =240V	MIN	MAX 100	UNITS nA
I_{R}	V _R =240V, T _A =150°C		100	μΑ
BV_R	I _R =100μA	300		V
V_{F}	I _F =100mA		1.0	V
CJ	V _R =0, f=1.0MHz		5.0	pF
t _{rr}	$I_F = I_R = 30 \text{mA}, I_{rr} = 3.0 \text{mA}, R_L = 100 \Omega$		50	ns

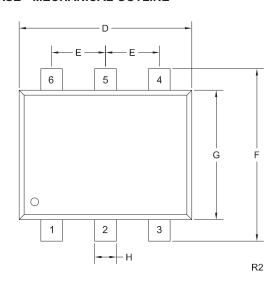
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SURFACE MOUNT SILICON **DUAL, ISOLATED HIGH VOLTAGE SWITCHING DIODE**

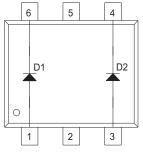


SOT-563 CASE - MECHANICAL OUTLINE





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)							

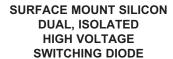
LEAD CODE:

- 1) Anode D1 2) NC
- 3) Anode D2
- 4) Cathode D2
- 5) NC
- 6) Cathode D1

MARKING CODE: DG

R2 (15-June 2015)

CMLD2004G





SERVICES

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R2 (15-June 2015)