CMLD6001

SURFACE MOUNT SILICON **DUAL, ISOLATED ULTRA LOW LEAKAGE**





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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



SOT-563 CASE

MAXIMUM RATINGS: (T _A =25°C) Continuous Reverse Voltage	SYMBOL VR	75	UNITS V
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Continuous Forward Current	I _F	250	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

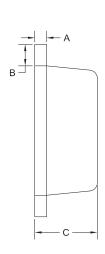
ELECTRIC	CAL CHARACTERISTICS PER DIODE: (T _Δ =25°C unless	otherwise noted)	
SYMBOL	TEST CONDITIONS	´` MIN	MAX	UNITS
I_{R}	V _R =75V		500	pА
BV_R	I _R =100μA	100		V
V_{F}	I _F =1.0mA		0.85	V
V_{F}	I _F =10mA		0.95	V
V_{F}	I _F =100mA		1.1	V
C_{J}	V _R =0, f=1.0MHz		2.0	pF
t _{rr}	$I_{P}=I_{E}=10\text{mA}, I_{rr}=1.0\text{mA}, R_{I}=100\Omega$		3.0	μs

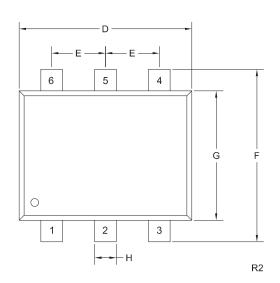
CMLD6001

SURFACE MOUNT SILICON **DUAL, ISOLATED ULTRA LOW LEAKAGE SWITCHING DIODE**

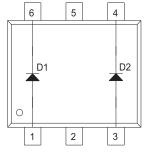


SOT-563 CASE - MECHANICAL OUTLINE





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)							

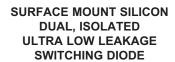
LEAD CODE:

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

MARKING CODE: C6D or 6D

R6 (15-June 2015)

CMLD6001





SERVICES

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R6 (15-June 2015)