



CMLD6001

**SURFACE MOUNT
PICOmini™
DUAL, ISOLATED
LOW LEAKAGE SILICON
SWITCHING DIODES**

PICOmini™



SOT-563 CASE

Central™

Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMLD6001 type contains Two (2) Isolated Silicon Switching Diodes, manufactured by the epitaxial planar process, epoxy molded in a PICOmini™ surface mount package. These devices are designed for switching applications requiring extremely low leakage.

MARKING CODE: C6D

MAXIMUM RATINGS: (T_A=25°C)

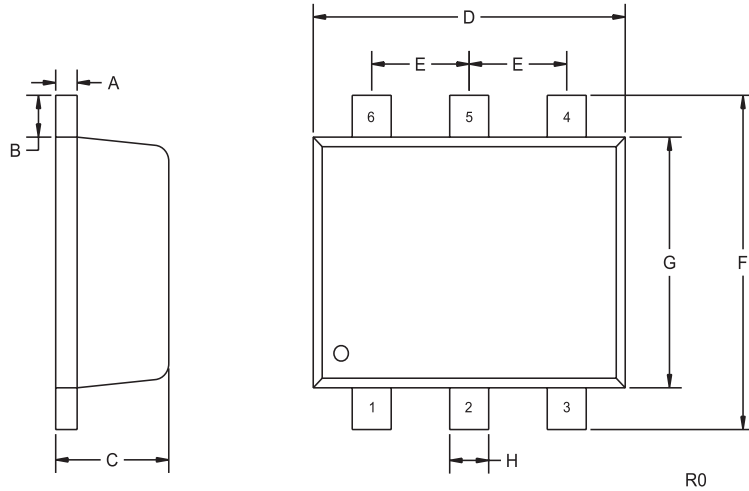
Continuous Reverse Voltage	
Peak Repetitive Reverse Voltage	
Continuous Forward Current	
Forward Surge Current, tp=1μs	
Forward Surge Current, tp=1s	
Power Dissipation	
Operating and Storage Junction Temperature	
Thermal Resistance	

SYMBOL		UNITS
V _R	75	V
V _{RRM}	100	V
I _F	250	mA
I _{FSM}	4000	mA
I _{FSM}	1000	mA
P _D	250	mW
T _J , T _{stg}	-65 to +150	°C
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 =75V		500	pA
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 _T	V _R =0, f=1 MHz		2.0	pF
t _{rr}	I _R =I _F =10mA, R _L =100Ω Rec. to 1.0mA		3.0	μs

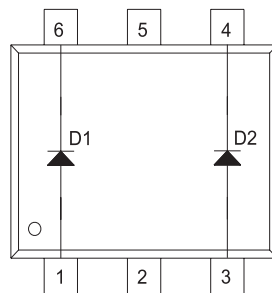
SOT-563 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.004	0.007	0.10	0.18
B	0.008		0.20	
C	0.022	0.024	0.56	0.60
D	0.059	0.067	1.50	1.70
E	0.020		0.50	
F	0.061	0.067	1.55	1.70
G	0.047		1.20	
H	0.006	0.012	0.15	0.30

SOT-563 (REV: R0)

PIN CONFIGURATION



LEAD CODE:

- 1) ANODE D1
- 2) NC
- 3) ANODE D2
- 4) CATHODE D2
- 5) NC
- 6) CATHODE D1

MARKING CODE: C6D

R1 (6-June 2008)