

CMLSH05-4DO

SURFACE MOUNT PICOmini™
DUAL ISOLATED, LOW V_F
OPPOSING SILICON
SCHOTTKY DIODES

PICOmini™**SOT-563 CASE**

Central™

Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMLSH05-4DO consists of two (2) individual electrically isolated 40 volt Schottky Diodes with opposing polarity and packaged in a space saving SOT-563 surface mount case. This PICOmini™ device has been designed for applications requiring a low forward voltage drop.

MARKING CODE: CO4**MAXIMUM RATINGS:** ($T_A=25^\circ\text{C}$)

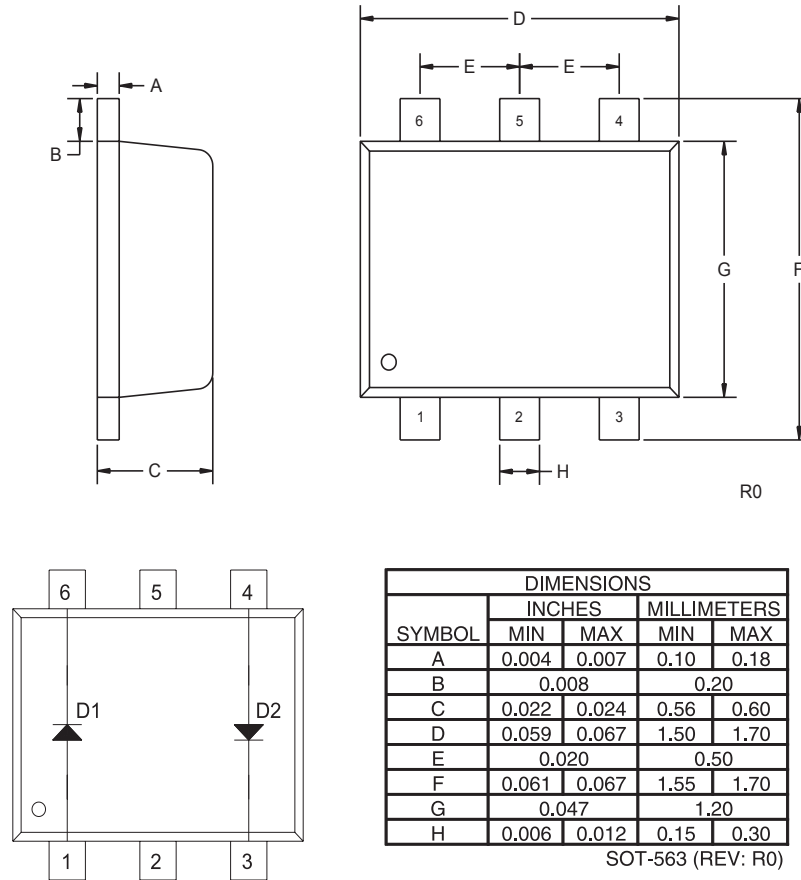
	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Continuous Forward Current	I_F	500	mA
Peak Repetitive Forward Current, $t_p \leq 1\text{ms}$	I_{FRM}	3.5	A
Forward Surge Current, $t_p=8\text{ms}$	I_{FSM}	10	A
Power Dissipation	P_D	250	mW
Operating and Storage			
Junction Temperature	T_J, T_{stg}	-65 to +150	$^\circ\text{C}$
Thermal Resistance	θ_{JA}	500	$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS PER DIODE: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_R	$V_R=10\text{V}$		20	μA
I_R	$V_R=30\text{V}$		100	μA
B_{VR}	$I_R=500\mu\text{A}$	40		V
V_F	$I_F=100\mu\text{A}$		0.13	V
V_F	$I_F=1.0\text{mA}$		0.21	V
V_F	$I_F=10\text{mA}$		0.27	V
V_F	$I_F=100\text{mA}$		0.35	V
V_F	$I_F=500\text{mA}$		0.47	V
C_T	$V_R=1.0\text{V}, f=1.0\text{MHz}$		50	pF

R1 (27-January 2004)

SOT-563 CASE - MECHANICAL OUTLINE



LEAD CODE:

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

MARKING CODE: CO4