

CMLSH-4
SURFACE MOUNT PICOmini™
DUAL, ISOLATED
SILICON
SCHOTTKY DIODES



Central™

Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMLSH-4 are two individual electrically isolated 40 volt Schottky Diodes, in a space saving SOT-563 surface mount package. This PICOmini™ device has been designed for applications requiring fast switching speeds and a low forward voltage drop.

MARKING CODE: C4E

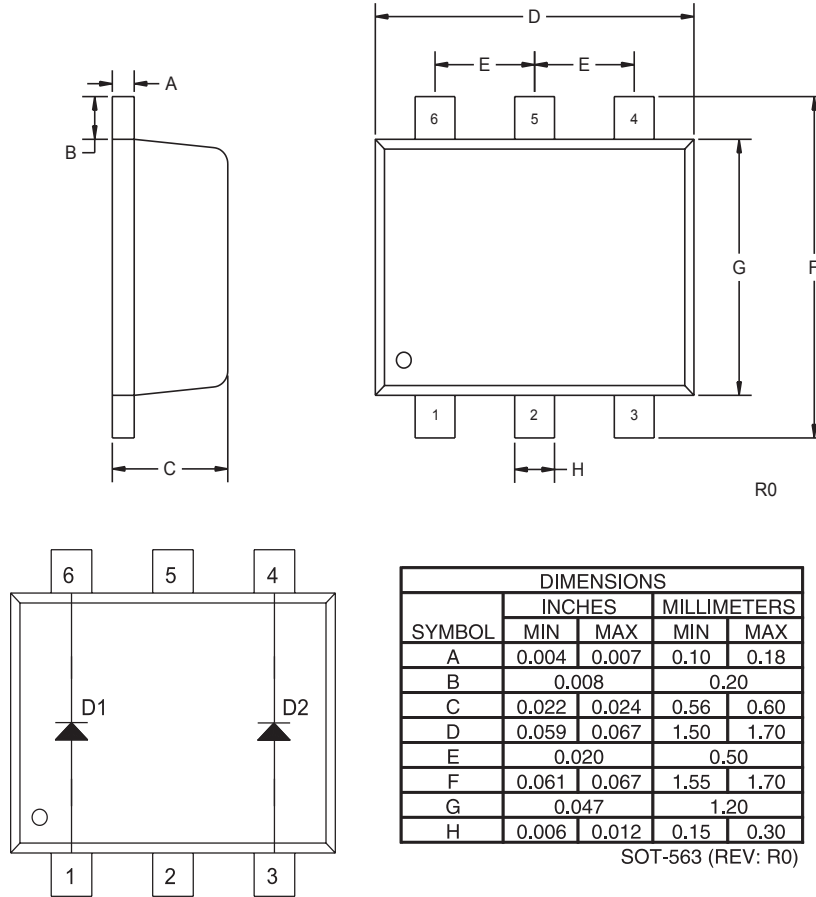
MAXIMUM RATINGS: (T_A=25°C)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
Continuous Forward Current	I _F	200	mA
Peak Repetitive Forward Current	I _{FRM}	350	mA
Forward Surge Current, tp=10ms	I _{FSM}	750	mA
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	TYP	MAX	UNITS
B _{VR}	I _R =100μA	40	50		V
V _F	I _F =2.0mA		0.29	0.33	V
V _F	I _F =15mA		0.37	0.42	V
V _F	I _F =100mA		0.61	0.80	V
V _F	I _F =200mA		0.65	1.0	V
I _R	V _R =25V		90	500	nA
I _R	V _R =25V, T _A =100°C		25	100	μA
C _T	V _R =1.0V, f=1.0 MHz		7.0		pF
t _{rr}	I _F =I _R =10mA, I _{rr} =1.0mA, R _L =100Ω			5.0	ns

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)

LEAD CODE:

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

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R0 (05-June 2003)