

CMLSH05-4

SURFACE MOUNT SILICON
LOW V_F
SCHOTTKY DIODE



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMLSH05-4 is a 40 volt Schottky diode packaged in a space saving SOT-563 surface mount case. This device has been designed for applications requiring a low forward voltage drop.



SOT-563 CASE

MAXIMUM RATINGS: (T_A=25°C)

	SYMBOL	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	V
Continuous Forward Current	I _F	mA
Peak Repetitive Forward Current, t _p ≤1.0ms	I _{FRM}	A
Peak Forward Surge Current, t _p =8.0ms	I _{FSM}	A
Power Dissipation	P _D	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	°C
Thermal Resistance	θ _{JA}	°C/W

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

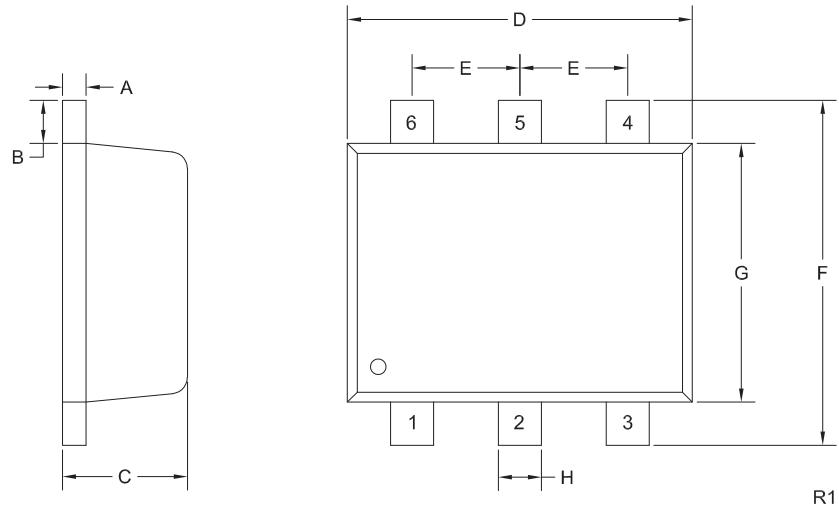
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _R	V _R =10V		20	μA
I _R	V _R =30V		100	μA
BV _R	I _R =500μA	40		V
V _F	I _F =100μA		0.13	V
V _F	I _F =1.0mA		0.21	V
V _F	I _F =10mA		0.27	V
V _F	I _F =100mA		0.35	V
V _F	I _F =500mA		0.47	V
C _J	V _R =1.0V, f=1.0MHz		50	pF

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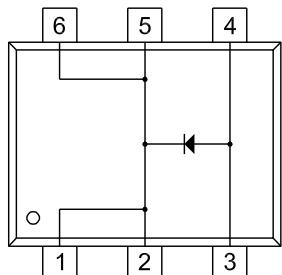
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SOT-563 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.0027	0.007	0.07	0.18
B	0.008		0.20	
C	0.017	0.024	0.45	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	0.045	0.049	1.15	1.25
H	0.006	0.012	0.15	0.30

SOT-563 (REV: R1)

LEAD CODE:

- 1) Cathode
- 2) Cathode
- 3) Anode
- 4) Anode
- 5) Cathode
- 6) Cathode

MARKING CODE: C54

R3 (14-February 2014)