

PRELIMINARY

CMLSH1-40

SURFACE MOUNT PICOMini™
HIGH CURRENT, LOW V_F
SILICON SCHOTTKY DIODE

PICOmini™



SOT-563 CASE

centralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMLSH1-40 is a 40 volt Schottky Diode packaged in a space saving SOT-563 surface mount case. This PICOMini™ device has been designed for applications requiring high current and a low forward voltage drop.

MARKING CODE: C41

MAXIMUM RATINGS: (T_A=25°C)

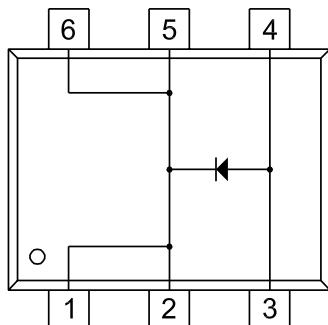
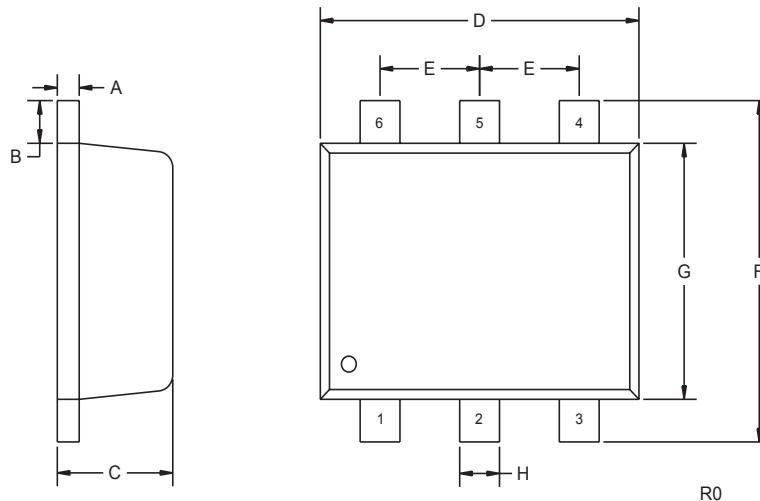
	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
Continuous Forward Current	I _F	1.0	A
Peak Repetitive Forward Current, t _p ≤ 1ms	I _{FRM}	3.5	A
Forward Surge Current, t _p =8ms	I _{FSM}	10	A
Power Dissipation	P _D	250	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	θ _{JA}	500	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _R	V _R = 5V		10	μA
I _R	V _R = 8V		20	μA
I _R	V _R = 15V		50	μA
BV _R	I _R = 100μA	40		V
V _F	I _F = 10mA		0.29	V
V _F	I _F = 100mA		0.36	V
V _F	I _F = 500mA		0.45	V
V _F	I _F = 1.0A		0.55	V

R0 (11-August 2004)

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) CATHODE
- 2) CATHODE
- 3) ANODE
- 4) ANODE
- 5) CATHODE
- 6) CATHODE

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