



CMPSH1-4L

SURFACE MOUNT
SILICON HIGH CURRENT
ULTRA LOW V_F
SCHOTTKY BARRIER RECTIFIER

POWER
23SUB ONE
CERTIFIED

SOT-23F CASE

APPLICATIONS:

- Load/Power Switches
- Power Supply Converter Circuits
- Battery powered equipment including Cell Phones, Digital Cameras, Pagers, PDAs, etc.

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

Continuous Reverse Voltage

FEATURES:

- Current ($I_F=1.0\text{A}$)
- Low Forward Voltage Drop ($V_F=0.39\text{V MAX @ }1.0\text{A}$)
- Low Reverse Current ($300\mu\text{A TYP @ }V_R=20\text{V}$)
- Small, surface mount, power SOT-23F package

Average Peak Forward Current	
Non Repetitive Forward Current ($t_p=8.3\text{ms}$)	
Power Dissipation	
Operating and Storage Junction Temperature	
Thermal Resistance	

SYMBOL	UNITS
V_R	V
I_O	A
I_{FSM}	A
P_D	mW
T_J, T_{stg}	$^\circ\text{C}$
Θ_{JA}	$^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=20\text{V}$		150	900	μA
I_R	$V_R=30\text{V}$		0.25	1.5	mA
BV_R	$I_R=1.0\text{mA}$	40			V
V_F	$I_F=100\text{mA}$		230	270	mV
V_F	$I_F=500\text{mA}$		300	340	mV
V_F	$I_F=1.0\text{A}$		340	390	mV
V_F	$I_F=1.5\text{A}$		390	420	mV
C_T	$V_R=10\text{V}, f=1.0\text{MHz}$		50		pF

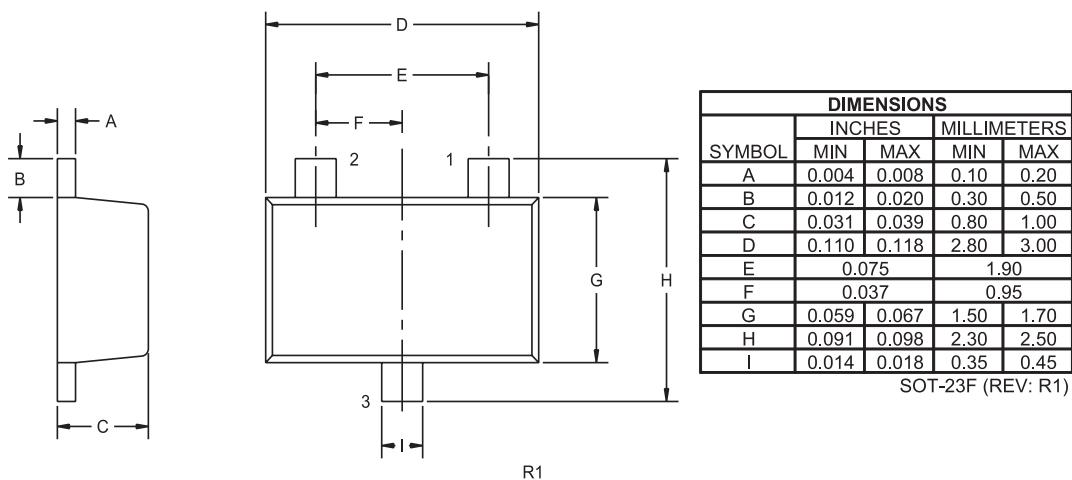
CentralTM
Semiconductor Corp.**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMPSH1-4L is a high current, ultra low V_F , Schottky Barrier Rectifier in a surface mount SOT-23F package. It is suitable for all applications requiring a high current, small sized, operationally efficient Schottky rectifier.

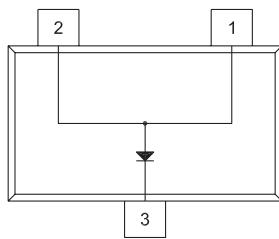
MARKING CODE: CSL

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SOT-23F CASE - MECHANICAL OUTLINE



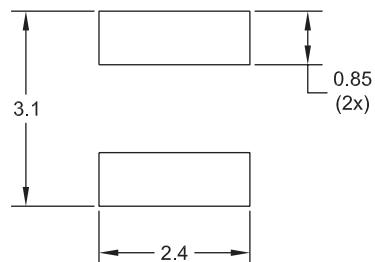
PIN CONFIGURATION



LEAD CODE:

- 1) ANODE
- 2) ANODE
- 3) CATHODE

OPTIONAL MOUNTING PADS



R0

(For standard mounting pads
see SOT-23F Package Details)

MARKING CODE: CSL

R2 (30-September 2008)