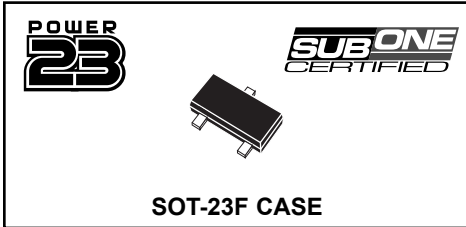


CMP5H1-4
SURFACE MOUNT
SILICON HIGH CURRENT
SCHOTTKY BARRIER RECTIFIER



CentralTM

Semiconductor Corp.

DESCRIPTION:

The Central Semiconductor CMP5H1-4 is a High Current, Schottky Barrier Rectifier in a surface mount SOT-23F package suitable for high current applications in mobile communications and DC-DC converters.

MARKING CODE: SH1

FEATURES:

- HIGH CURRENT (1AMP)
- POWER SOT-23F PACKAGE

MAXIMUM RATINGS: (T_A=25°C)

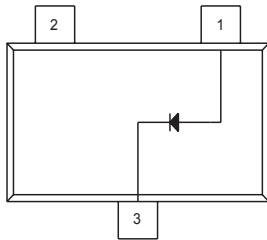
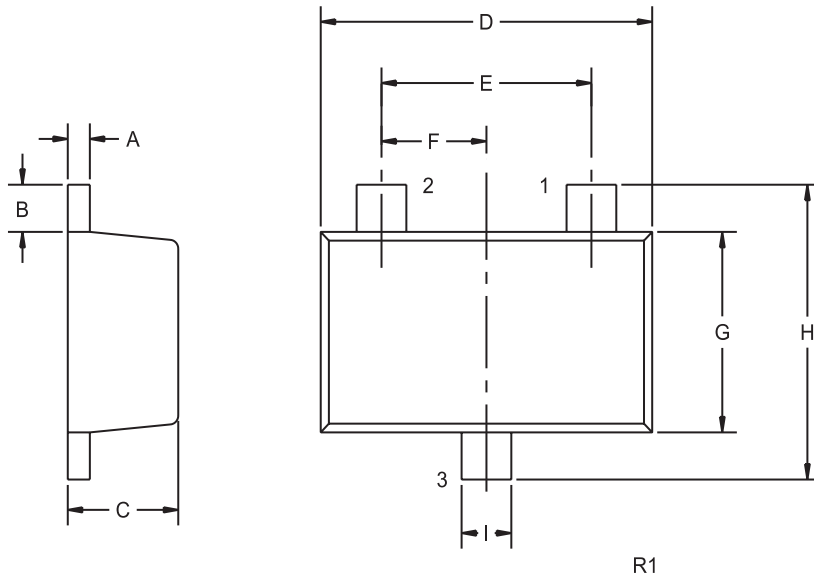
	SYMBOL		UNITS
Continuous Reverse Voltage	V _R	40	V
Forward Current	I _F	1.0	A
Average Peak Forward Current	I _O	1.75	A
Non Repetitive Forward Current t ₁ ≤100μs	I _{FSM}	12	A
t ₂ ≤10ms		5.2	A
Power Dissipation	P _D	350	mW
Operating and Storage			
Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	θ _{JA}	357	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _R	V _R =30V			100	μA
BV _R	I _R =100μA	40			V
V _F	I _F =100mA			390	mV
V _F	I _F =500mA			480	mV
V _F	I _F =1.0A			550	mV
V _F	I _F =1.5A			620	mV
V _F	I _F =1.0A, @ T _A =100°C		420		mV
C _T	V _R =25V, f=1.0MHz		25		pF
t _{rr}	I _F =500mA, I _R =500mA, I _{rr} =50mA		12		ns

**SURFACE MOUNT
SILICON HIGH CURRENT
SCHOTTKY BARRIER RECTIFIER**

SOT-23F CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) ANODE
- 2) NO CONNECTION
- 3) CATHODE

MARKING CODE: SH1

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.004	0.008	0.10	0.20
B	0.012	0.020	0.30	0.50
C	0.031	0.039	0.80	1.00
D	0.110	0.118	2.80	3.00
E	0.075		1.90	
F	0.037		0.95	
G	0.059	0.067	1.50	1.70
H	0.091	0.098	2.30	2.50
I	0.014	0.018	0.35	0.45

SOT-23F (REV: R1)