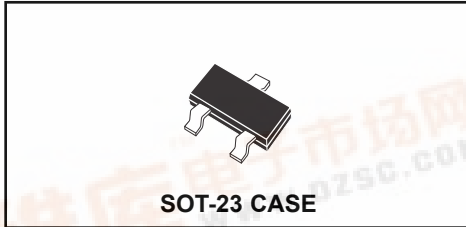


CMPH81
SURFACE MOUNT
PNP SILICON RF TRANSISTOR



CentralTM

Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPH81 type is a PNP Silicon RF Transistor, epoxy molded in a surface mount package, designed for general RF amplifier applications.

MARKING CODE: C3D

MAXIMUM RATINGS: (T_A=25°C)

	SYMBOL		UNITS
Collector-Base Voltage	V _{CB0}	20	V
Collector-Emitter Voltage	V _{CEO}	20	V
Emitter-Base Voltage	V _{EBO}	3.0	V
Collector Current (Continuous)	I _C	50	mA
Power Dissipation	P _D *	225	mW
Operating and Storage			
Junction Temperature	T _J , T _{stg}	-55 to +150	°C
Thermal Resistance	θ _{JA}	556	°C/W

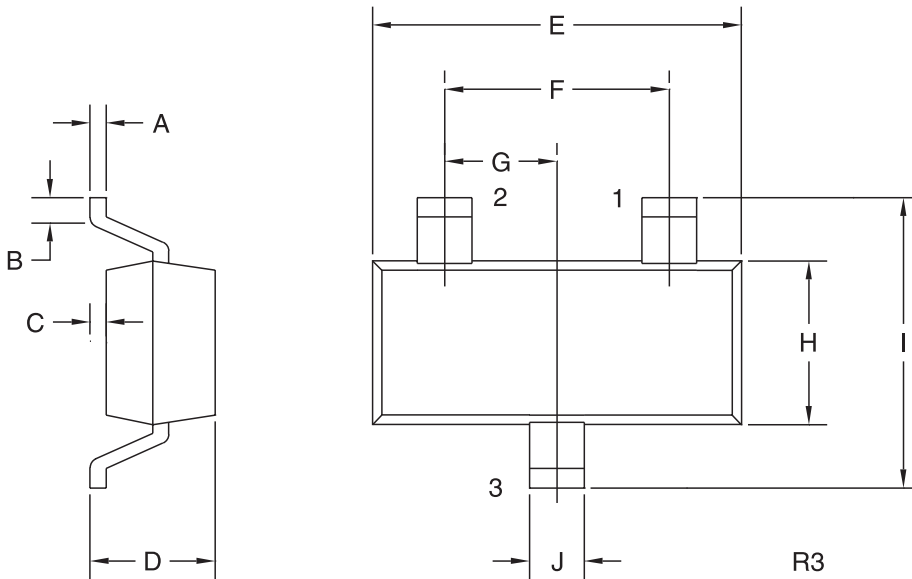
ELECTRICAL CHARACTERISTICS: (T_A=25°C UNLESS OTHERWISE NOTED)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =10V		100	nA
I _{EBO}	V _{EB} =2.0V		100	nA
BV _{CB0}	I _C =10μA	20		V
BV _{CEO}	I _C =1.0mA	20		V
BV _{EBO}	I _E =10μA	3.0		V
V _{CE(SAT)}	I _C =5.0mA, I _B =500μA		0.5	V
V _{BE(ON)}	V _{CE} =10V, I _C =5.0mA		0.9	V
h _{FE}	V _{CE} =10V, I _C =5.0mA	60		
f _T	V _{CE} =10V, I _C =5.0mA, f=100MHz	600		MHz
C _{cb}	V _{CB} =10V, I _E =0, f=1.0MHz		0.85	pF
C _{ce}	V _{CB} =10V, I _B =0, f=1.0MHz		0.65	pF

* FR-4 Epoxy PCB Substrate 1.6" x 1.6" x 0.06"



SOT-23 CASE- MECHANICAL OUTLINE



LEAD CODE:

- 1) BASE
- 2) EMITTER
- 3) COLLECTOR

MARKING CODE: C3D

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	0.035	0.043	0.89	1.09
E	0.110	0.120	2.80	3.05
F	0.075		1.90	
G	0.037		0.95	
H	0.047	0.055	1.19	1.40
I	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R3)