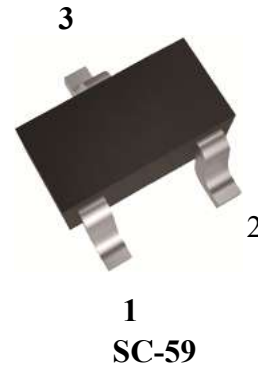


NPN SILICON RF TRANSISTOR

- Ultra high frequency low noise transistor
- Silicon epitaxial bipolar process.
- High power gain, low noise figure,
- high dynamic range and ideal current characteristics,
- SC-59 chip package, mainly used in VHF, UHF and CATV
- high frequency wideband low noise amplifier.



1; Base 2; Emitter 3; Collector

Feature

High gain: $|S_{21e}|$ TYP. Value is 12dB @ $V_{CE}=10V$, $I_C=30mA$, $f=1GHz$
 Low noise: NF TYP. Value is 1.5dB @ $V_{CE}=10V$, $I_C=7mA$, $f=1GHz$
 f_T (TYP.): TYP. Value is 8GHz @ $V_{CE}=10V$, $I_C=30mA$, $f=1GHz$

Absolute Maximum Ratings $T_A=25^\circ C$ Unless Otherwise noted

PARAMETER	SYMBLE	MAXIMUM VALUE	UNIT
Collector-base breakdown voltage	V_{CBO}	20	V
Collector-emitter breakdown voltage	V_{CEO}	12	V
Emitter-base breakdown voltage	V_{EBO}	2	V
Collector current	I_C	100	mA
Collector Power Dissipation	PD	365	mW
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature	T_{stg}	-65 ~ +150 $^\circ C$	T_{stg}

hFE Classification

Classification	B	C
Marking	R24	R25
hFE	80-140	120-200

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CONSCIOUS PRODUCTS BEGIN WITH CONSCIOUS PEOPLE

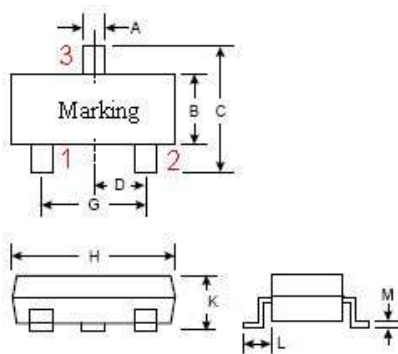


ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

PARAMETER	SYMBLE	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Collector-base breakdown voltage	V _{CB0}	20			v	I _C =1.0μA
Collector cut-off current	I _{CBO}			0.1	μA	V _{CB} =10V
Emitter cut-off current	I _{EBO}			0.1	μA	V _{EB} =1V
DC current gain	h _{FE}	80	120	200		V _{CE} =5V, I _C =20mA
Transit frequency	f _r		8		GHz	V _{CE} =10V, I _C =30mA
Power gain	S _{21e} ²		12		dB	V _{CE} =10V, I _C =30mA, f=1GHz
Noise factor	NF		1.5		dB	V _{CE} =10V, I _C =7mA, f=1GHz

PACKAGE; SC-59

1: (Base) 2: (Emitter) 3: (Collector)



SC-59		
SYMBLE	MIN (mm)	MAX (mm)
A	0.35	0.5
B	1.4	1.7
C	2.7	3.1
D	0.95	
G	1.7	2.1
H	2.7	3.1
K	1	1.3
L	0.5	0.85
M	0.1	0.35

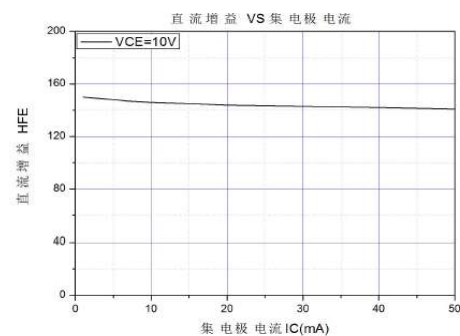
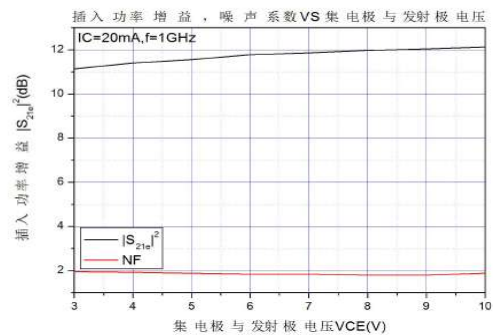
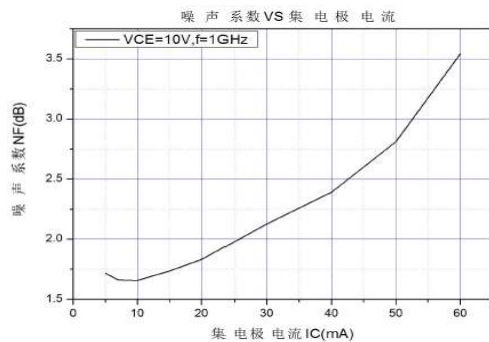
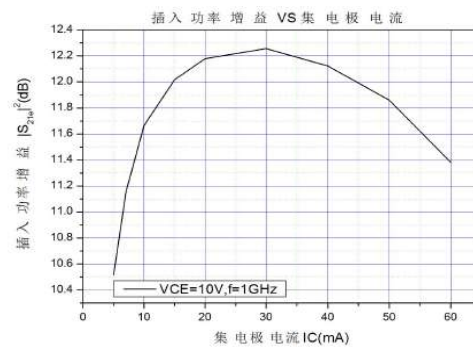
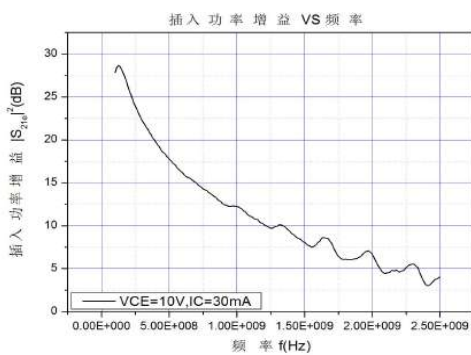
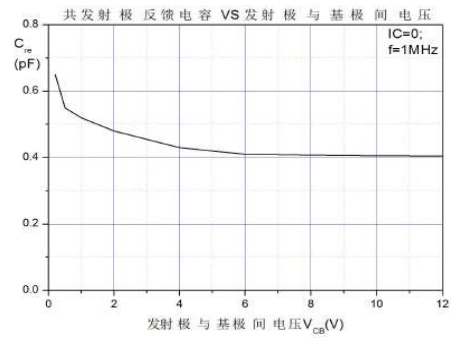
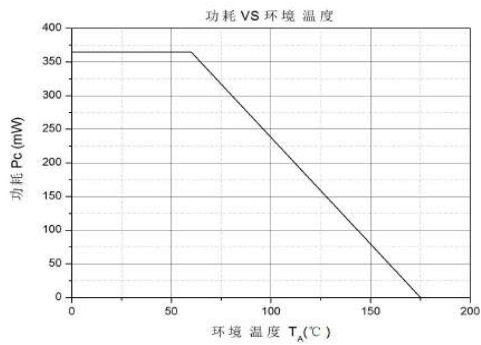
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