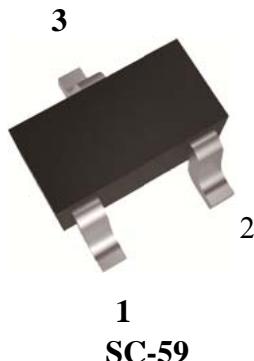


NPN SILICON RF TRANSISTOR

- 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} 2 TYP. Value is 11dB	@ V _{CE} =10V, I _C =20mA, f=1GHz
Low noise: NF TYP. Value is 1.5dB	@ V _{CE} =10V, I _C =7mA, f=1GHz
f _r (TYP.): TYP. Value is 7GHz	@ V _{CE} =10V, I _C =20mA, f=1GHz

Absolute Maximum Ratings TA=25°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}	3	V
Collector current	I _C	100	mA
Collector Power Dissipation	P _D	200	mW
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-65 ~ +150 °C	T _{stg}

hFE Classification (@VCE=10V,IC=20mA)

Classification	B	C	D
Marking	R24	R25	
hFE	90-140	130-180	170-250

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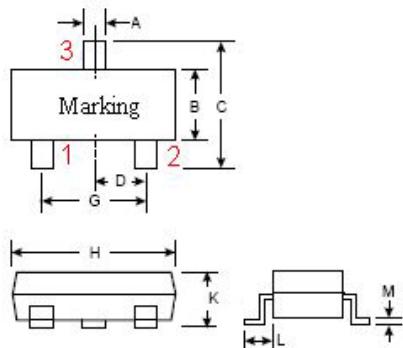
www.shike.tw

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

PARAMETER	SYMBLE	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Collector-base breakdown voltage	V _{CBO}	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
Transit frequency	f _T	5	7		GHz	V _{CE} =10V,I _C =20mA
Output feedback capacitor	C _{re}		0.65		pF	V _{CB} =10V,IE=0mA,f=1MHz
Power gain	S _{21e} ₂		11		dB	V _{CE} =10V,I _C =20mA,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)

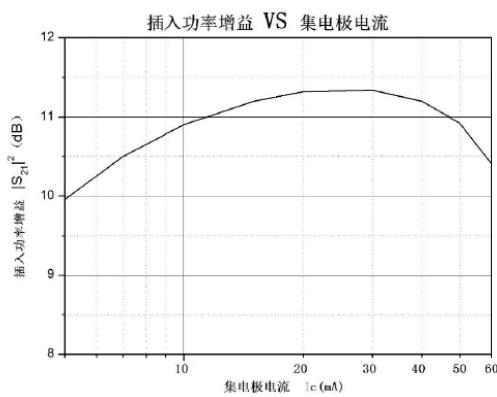
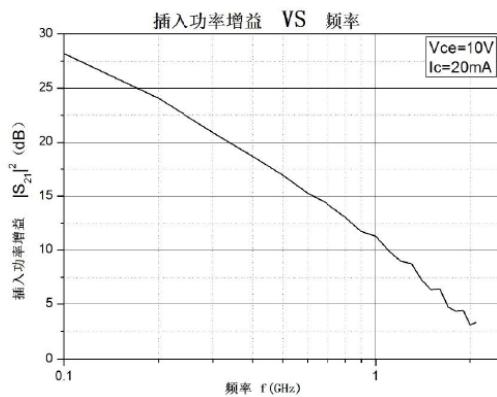
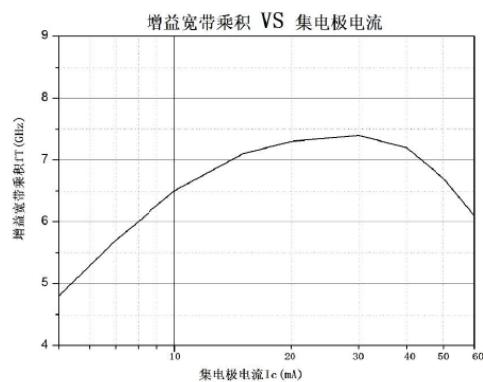
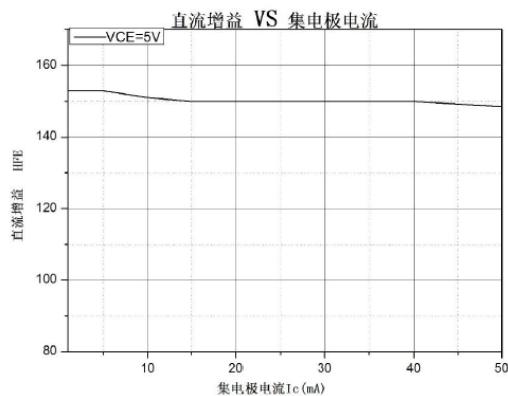
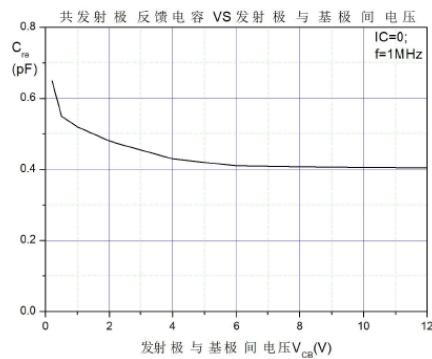
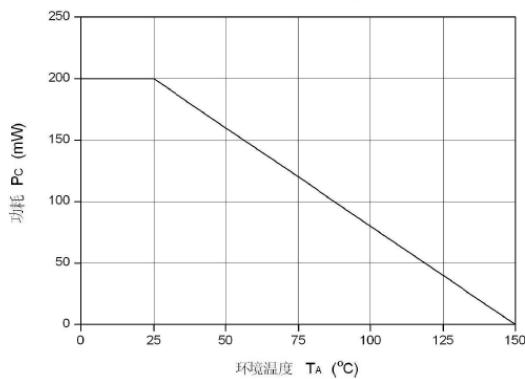


SC-59		
SYMBLE	MIN (mm)	MAX (mm)
A	0.35	0.5
B	1.4	1.7
C	2.7	3.1
D	0.95	
G	1.7	2.1
H	2.7	3.1
K	1	1.3
L	0.5	0.85
M	0.1	0.35

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Typical characteristic curves (TA =25°C)

功耗 vs. 环境温度



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