捷多邦,专业PCB打样工厂,24小时加急出货

查询2SC4407供应商

Ordering number:EN2760

NPN Epitaxial Planar Silicon Transistor

2SC4407

VHF/UHF Mixer,



Applications

• VHF/UHF mixers, frequency converters, local oscillators.

Features

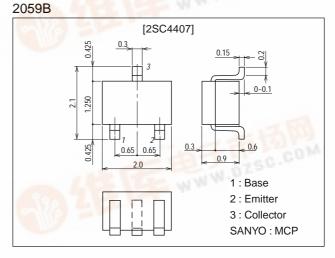
- · High cutoff frequency : $f_T=3.0GHz$ typ
- High power gain : PG=12dB typ (f=0.9GHz)
- Small noise figure : NF=3.0dB typ (f=0.9GHz)
- Very small-sized package permitting 2SC4407applied sets to be made smaller and slimmer.

Local Oscillator Applications

Package Dimensions

unit:mm

WW.DZSC.COM



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	
Collector-to-Base Voltage	VCBO		25	V
Collector-to-Emitter Voltage	VCEO		15	V
Emitter-to-Base Voltage	VEBO	100	3	V
Collector Current	IC		50	mA
Collector Dissipation	PC	A REAL PROPERTY AND A REAL	150	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions		Unit		
			min	typ	max	
Collector Cutoff Current	ICBO	V _{CB} =15V, I _E =0			0.1	μA
Emitter Cutoff Current	IEBO	V _{EB} =2V, I _C =0			10	μA
DC Current Gain	hFE	V _{CE} =10V, I _C =5mA	40*		200*	
Gain-Bandwidth Product	fT	V _{CE} =10V, I _C =10mA	1.5	3.0		GHz
Output Capacitance	Cob	V _{CB} =10V, f=1MHz	10.0	0.7	1.0	pF
Reverse Transfer Capacitance	C _{re}	V _{CB} =10V, f=1MHz	26	0.45	12.0	pF

* : The 2SC4407 is classified by 5mA h_{FE} as follows : 40 2 80 60 3 120 100 4 200

(Note) Marking : KY

 h_{FE} rank : 2, 3, 4

• For CP package version, use the 2SC4270.

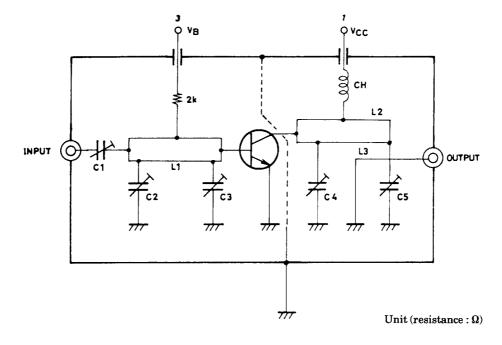
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2SC4407

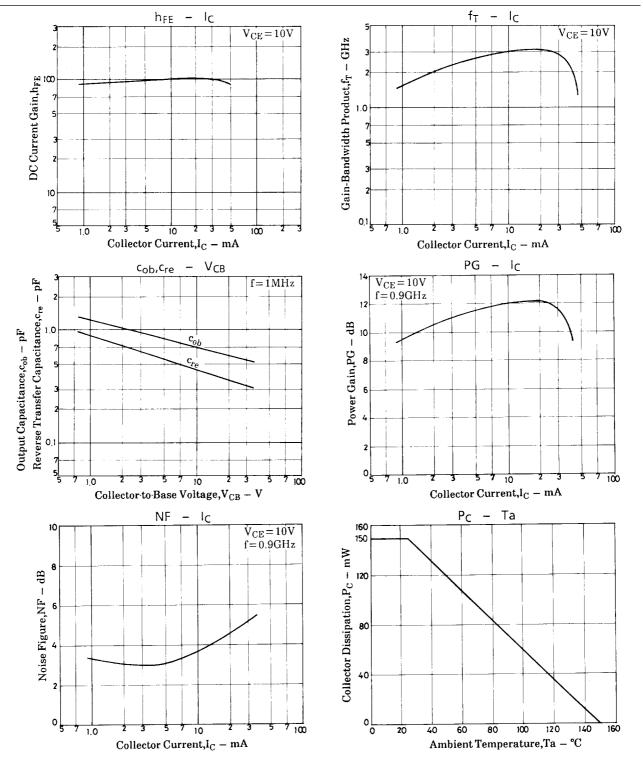
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onit
Power Gain	PG	V _{CE} =10V, I _C =10mA, f=0.9GHz		12		dB
Noise Figure	NF	V _{CE} =10V, I _C =3mA, f=0.9GHz See specified Test Circuit.		3.0		dB

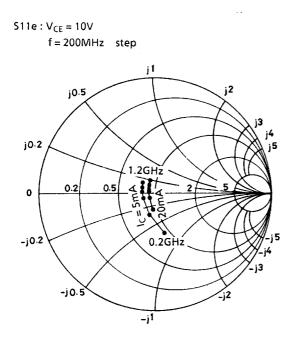
NF Test Circuit

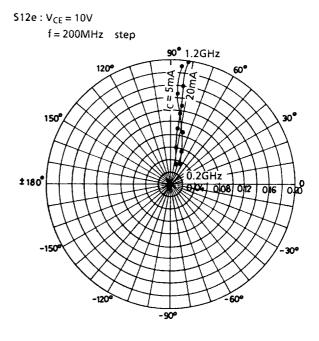


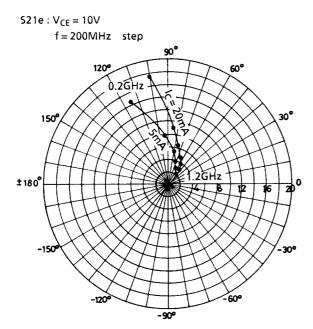
	900MHz		
C1	~5pF		
C2	~10pF		
C3	~10pF		
C4	~10pF		
C5	~10pF		
L1	W ≈ 1.5mm, I ≈ 25mm		
	Strip line		
L2	W ≈ 4mm, I ≈ 25mm		
	Strip line		
L3	0.5φ, I ≈ 40mm		
CH	2t+bead core		

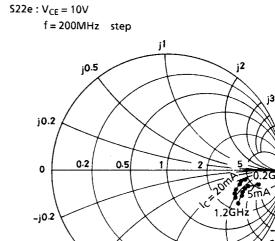
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