(Transistor)

2SC5396

For FM · AM Radio High Frequency Amplify Application Silicon NPN Epitaxial Type Micro(Frame type)

DESCRIPTION

2SC5396 is a silicon NPN epitaxial type transistor. It is designed for high frequency amplify application.

FEATURE

- High fT at low current range ,small Ccrb'b fT=470MHz typ (Ic=1mA)
 Ccrb'b=15pS typ (Ic=1mA)
- · Low noise figure

NF=2.5dB typ (fT=100MHz)

APPLICATION

FM radio tuner ,VHF band amplify.

MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	RATINGS	UNIT
Vсво	Collector to Base voltage	25	V
VEBO	Emitter to Base voltage	3	V
VCEO	Collector to Emitter voltage	12	V
Ic	Collector current	20	mA
Рс	Collector dissipation (Ta=25°C)	240	mW
Tj	Junction temperature	+125	°C
Tstg	Storage temperature	-55to+125	°C

TERMINAL CONNECTOR ①: EMITTER ②: COLLECTOR EIAJ:— ③: BASE JEDEC:—

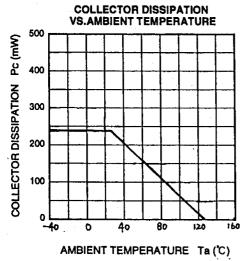
ELECTRICAL CHARACTERISTICS (Ta=25°C)

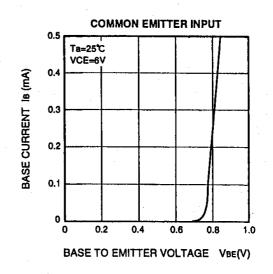
SYMBOL	PARAMETER	TESTCONDITIONS	LIMITS			
			MIN	TYP	MAX	UNIT
1 сво	Collector cut off current	VcB=12V, E=0			0.5	μΑ
l ebo	Emitter cut off current	VEB=2V, I C=0			1.0	μΑ
hfe *	DC forward current gain	VcE=6V, I c=1mA	35		180	1 —
fτ	Gain band width product	VcE=6V, I E=-1mA	400	470		MHz
Сов	Collector output capacitance	VcB=6V, I E=0, f=1MHz		1.4	2.0	pF
Ccrb'b	Base time constant	VcB=6V, I E=-1mA, f=31.8MHz		15	25	pS
NF	Noise figure	VcE=6V, I E=-1mA, f=100MHz,Rg=50Ω		2.5		dB
MAG	Max effective power gain	VcE=6V, I E=-1mA, f=100MHz	· · · · · · · · · · · · · · · · · · ·	37		dB

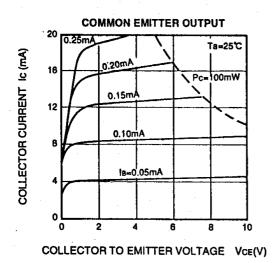
ITEM	В	С	D .
hFE	35~70	55~110	90~180

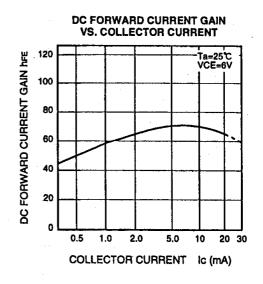
For FM · AM Radio High Frequency Amplify Application Silicon NPN Epitaxial Type Micro(Frame type)

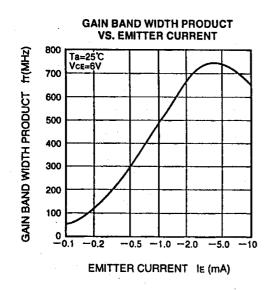
TYPICAL CHARACTERISTICS

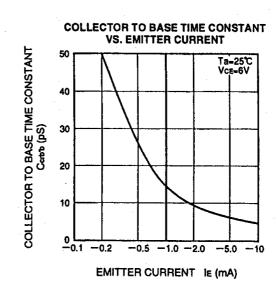










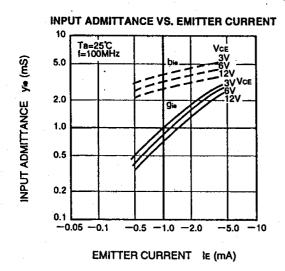


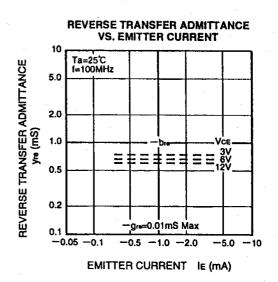
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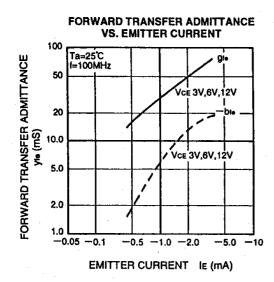
COMMON EMITTER, 100MHz, y PARAMETER (TYPICAL VALUE)

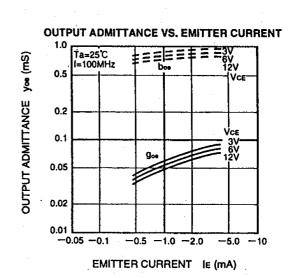
Symbol		Test conditions	Limits	Unit
yie.	gie		0.9	
y	bie	7	3.3	⊢ mS
yre .	-gre	Ta=25℃	0.01Max	
y.• .	—pre	VcE=6V	0.7	- mS
yie .	gte	IE≕1mA	30	- mS
,	-bre	f=100MHz	6.0	7 1113
Уов	goe		0.05	- mS
,	Doe		0.9	l mo

COMMON EMITTER, 100MHz y PARAMETER









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