2SC4410

Silicon NPN epitaxial planer type

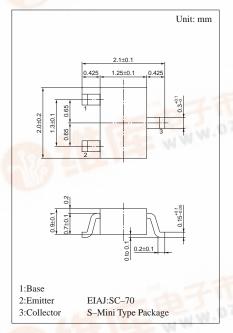
For UHF amplification

Features

- Allowing the small current and low voltage operation.
- High transition frequency f_T.
- S-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit	
Collector to base voltage	V_{CBO}	10	V	
Collector to emitter voltage	V_{CEO}	7	V	
Emitter to base voltage	V_{EBO}	2	V	
Collector current	I_{C}	10	mA	
Collector power dissipation	P_{C}	50	mW	
Junction temperature	T_{j}	150	°C	
Storage temperature	T_{stg}	−55 ~ +150	°C	
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Marking symbol: 2X

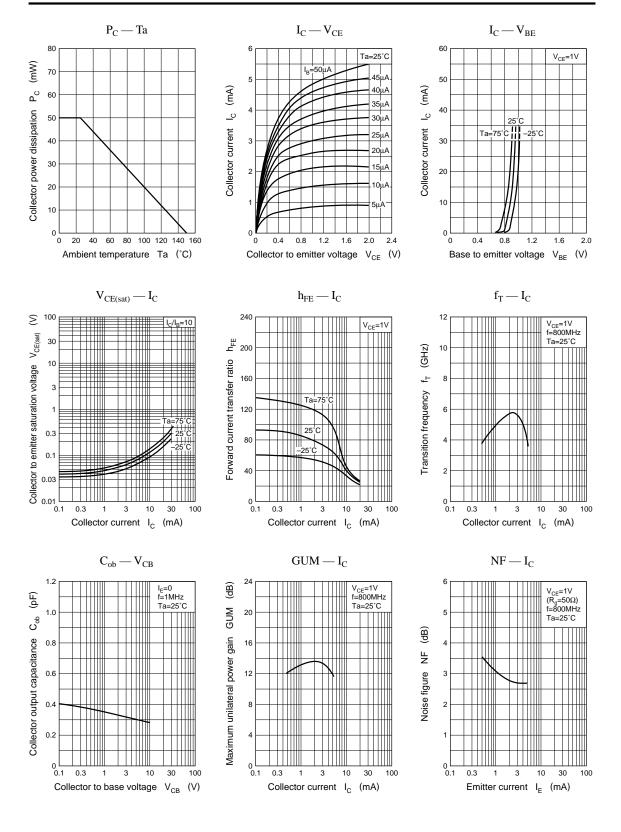
■ Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 10V, I_E = 0$			1	μА
Emitter cutoff current	I _{EBO}	$V_{EB} = 1.5V, I_C = 0$			1	μА
Forward current transfer ratio	h _{FE}	$V_{CE} = 1V$, $I_C = 1mA$	50	- 170	200	LIVE!
Transition frequency	f_T	$V_{CE} = 1V, I_C = 1mA, f = 800MHz$	47	4	- W	GHz
Collector output capacitance	C _{ob}	$V_{CB} = 1V, I_{E} = 0, f = 1MHz$		0.4		pF
Foward transfer gain	S _{21e} ²	$V_{CE} = 1V, I_{C} = 1mA, f = 800MHz$		6.0		dB
Maximum unilateral power gain	GUM	$V_{CE} = 1V$, $I_{C} = 1$ mA, $f = 800$ MHz		15		dB
Noise figure	NF	$V_{CE} = 1V, I_{C} = 1mA, f = 800MHz$		3.5		dB

Note: Handle the product with care because this is sensitive to the electrostatic breakdown by its structure.



Transistor 2SC4410



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