2SC4410

Silicon NPN epitaxial planer type

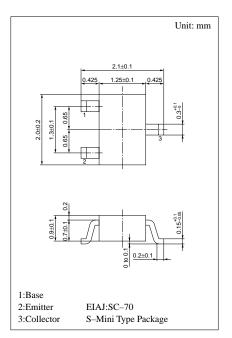
For UHF amplification

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.

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	Tj	150	°C
Storage temperature	T _{stg}	-55 ~ +150	°C

Absolute Maximum Ratings (Ta=25°C)

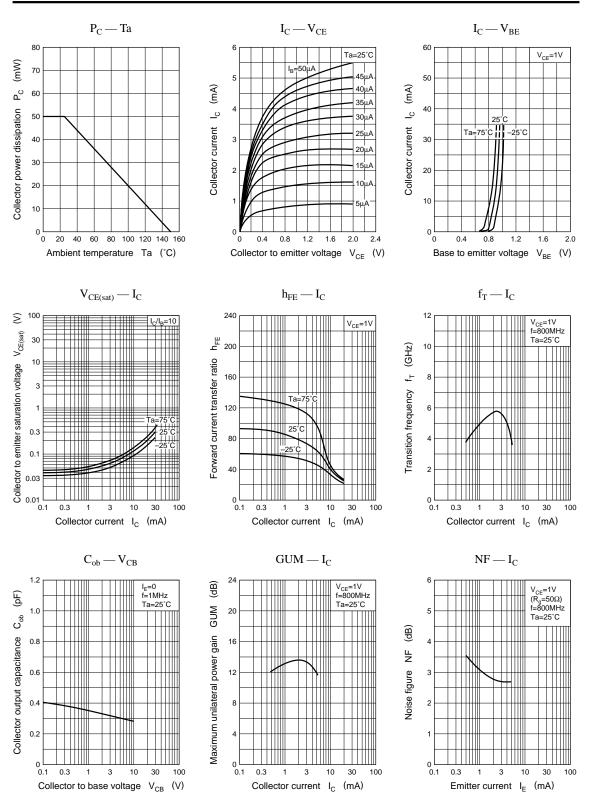


Marking symbol : 2X

Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 10V, I_E = 0$			1	μΑ
Emitter cutoff current	I _{EBO}	$V_{EB} = 1.5 V, I_C = 0$			1	μA
Forward current transfer ratio	h _{FE}	$V_{CE} = 1V, I_{C} = 1mA$	50		200	
Transition frequency	f _T	$V_{CE} = 1V$, $I_{C} = 1mA$, $f = 800MHz$		4		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	$V_{CE} = 1V, I_C = 1mA, f = 800MHz$		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.



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