2SC3354

Silicon NPN epitaxial planer type

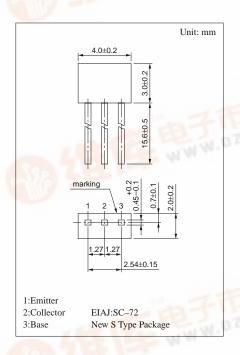
For high-frequency amplification/oscillation/mixing

Features

- Optimum for high-density mounting.
- Allowing supply with the radial taping.
- High transition frequency f_T.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	30	v
Collector to emitter voltage	V _{CEO}	20	V
Emitter to base voltage	V_{EBO}	3	V
Collector current	I_{C}	50	mA
Collector power dissipation	P_{C}	300	mW
Junction temperature	T _j	150	°C
Storage temperature	T_{stg}	−55 ~ +150	°C



Electrical Characteristics (Ta=25°C)

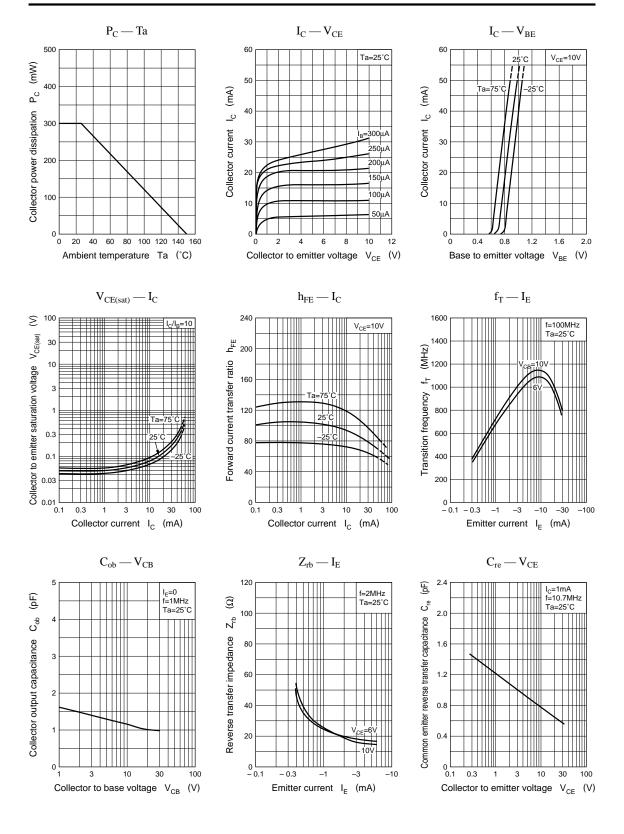
Parameter Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to base voltage	V _{CBO}	$I_{\rm C} = 100 \mu A, I_{\rm E} = 0$	30			V
Emitter to base voltage	V _{EBO}	$I_{\rm E} = 10 \mu A, I_{\rm C} = 0$	3			V
Forward current transfer ratio	h _{FE}	$V_{CB} = 10V, I_E = -2mA$	25		250	7
Base to emitter voltage	V _{BE}	$V_{CB} = 10V, I_{E} = -2mA$		720	- 176	mV
Common base reverse transfer capacitance	C _{rb}	$V_{CE} = 6V, I_{C} = 0, f = 1MHz$		0.8	- W	pF
Common emitter reverse transfer capacitance	C _{re}	$V_{CE} = 10V, I_{C} = 1mA, f = 10.7MHz$		1	1.5	pF
Transition frequency	f _T *	$V_{CB} = 10V, I_{E} = -15mA, f = 200MHz$	600	1200	1600	MHz
Power gain	PG	$V_{CB} = 10V, I_E = -1mA, f = 100MHz$		17		dB

*h_{FE} Rank classification

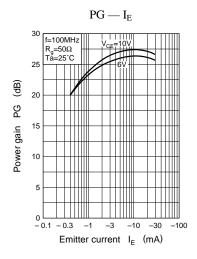
Rank	Т	S		
f _T (MHz)	600 ~ 1300	900 ~ 1600		

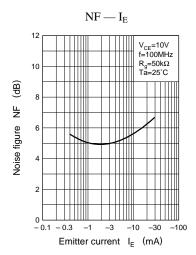


Transistor 2SC3354



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