

# 2SC3354

Silicon NPN epitaxial planer type

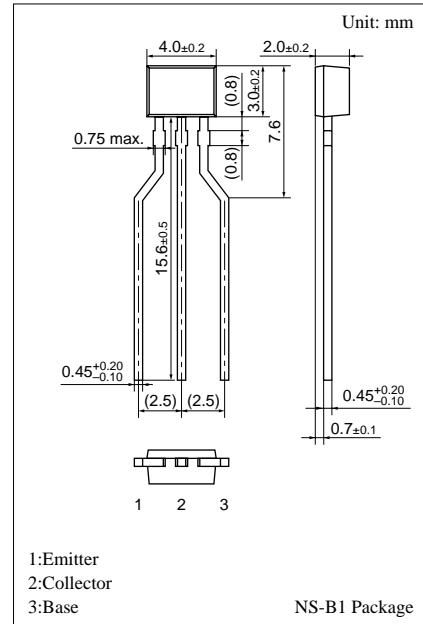
For high-frequency amplification/oscillation/mixing

## ■ 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

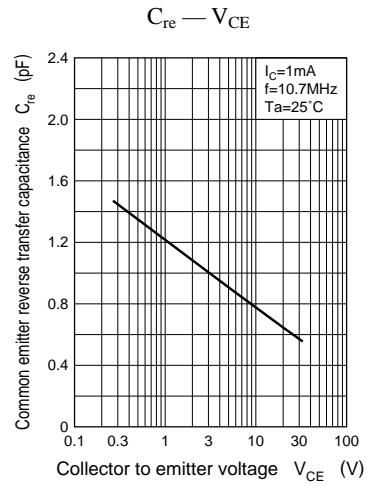
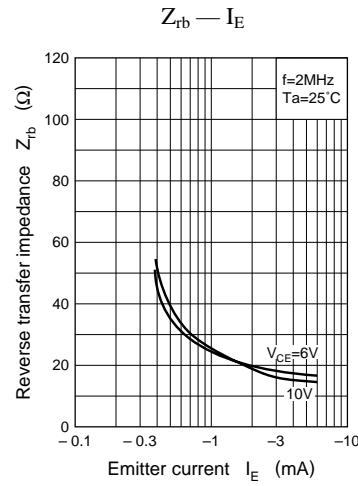
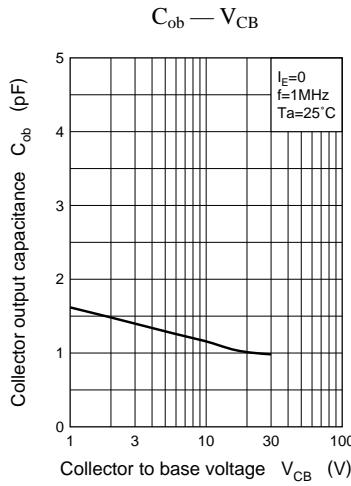
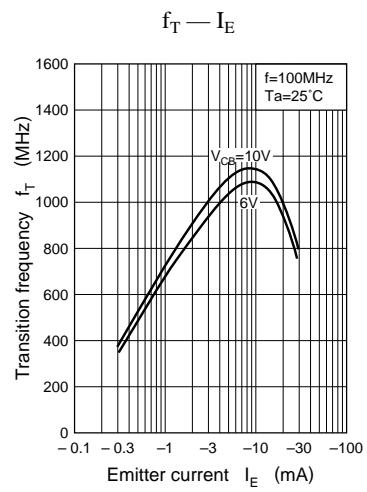
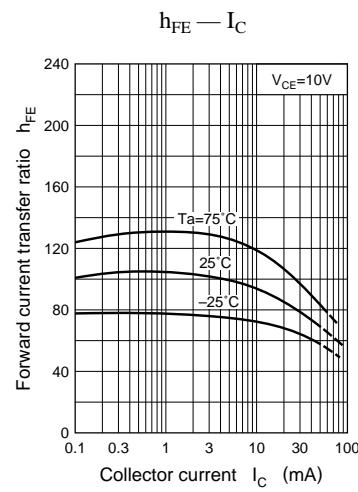
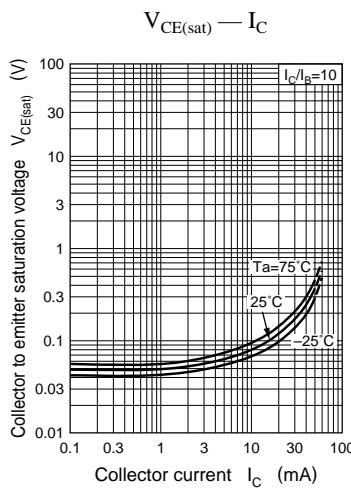
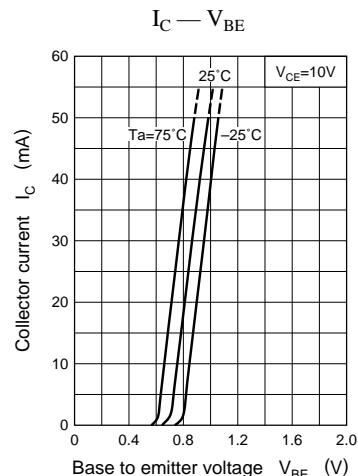
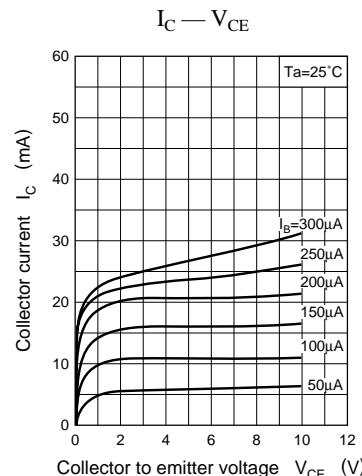
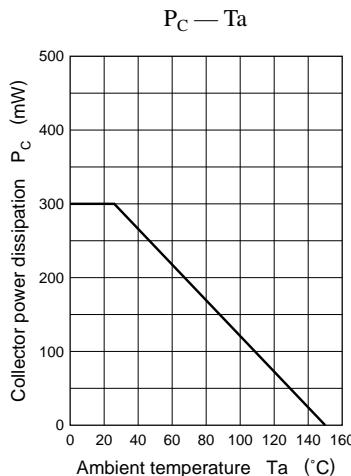


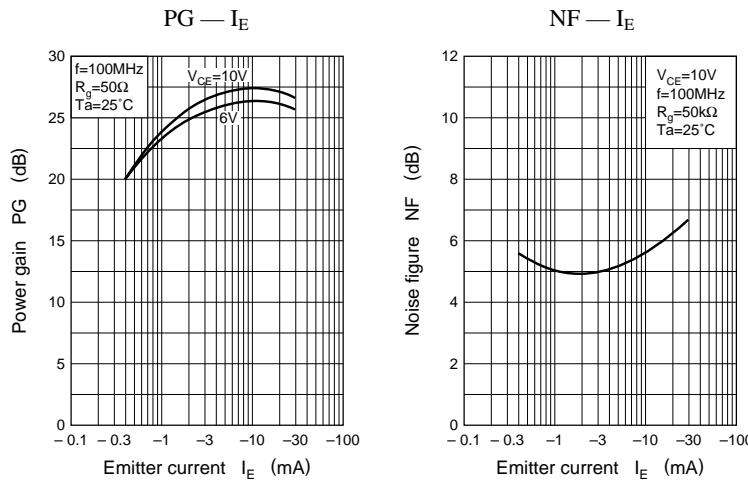
## ■ Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to base voltage	$V_{CBO}$	$I_C = 100\mu A, I_E = 0$	30			V
Emitter to base voltage	$V_{EBO}$	$I_E = 10\mu A, I_C = 0$	3			V
Forward current transfer ratio	$h_{FE}$	$V_{CB} = 10V, I_E = -2mA$	25		250	
Base to emitter voltage	$V_{BE}$	$V_{CB} = 10V, I_E = -2mA$		720		mV
Common base reverse transfer capacitance	$C_{rb}$	$V_{CE} = 6V, I_C = 0, f = 1MHz$		0.8		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	T	S
$f_T$ (MHz)	600 ~ 1300	900 ~ 1600





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