# 2SC3354

### Silicon NPN epitaxial planer type

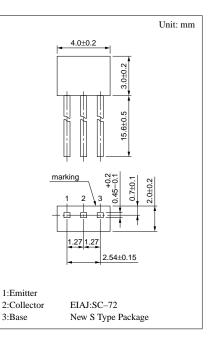
For high-frequency amplification/oscillation/mixing

#### Features

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

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Parameter	Symbol	Ratings	Unit		
Collector to base voltage	V <sub>CBO</sub>	30	V		
Collector to emitter voltage	V <sub>CEO</sub>	20	V		
Emitter to base voltage	V <sub>EBO</sub>	3	V		
Collector current	I <sub>C</sub>	50	mA		
Collector power dissipation	P <sub>C</sub>	300	mW		
Junction temperature	Tj	150	°C		
Storage temperature	T <sub>stg</sub>	-55 ~ +150	°C		

#### Absolute Maximum Ratings (Ta=25°C)

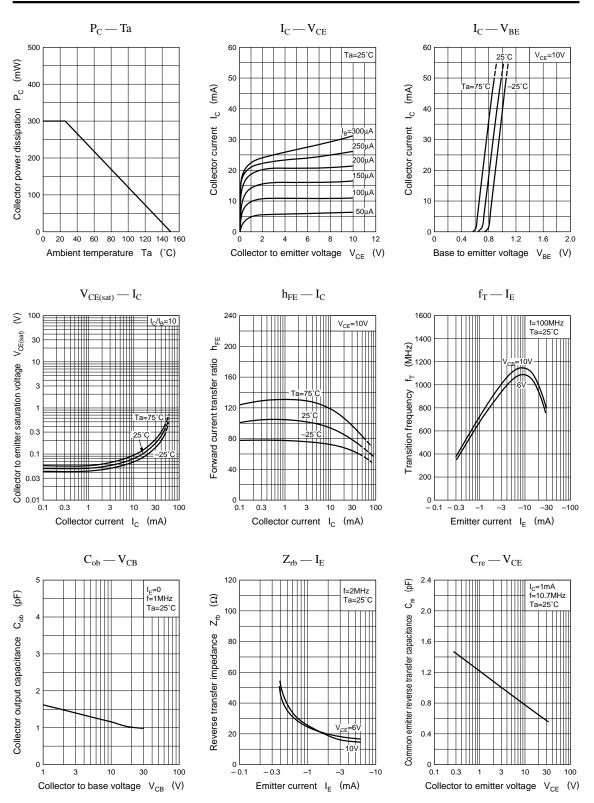


#### Electrical Characteristics (Ta=25°C)

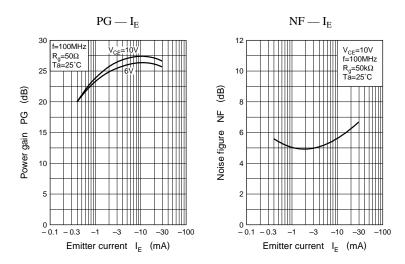
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to base voltage	V <sub>CBO</sub>	$I_{\rm C} = 100 \mu A, I_{\rm E} = 0$	30			V
Emitter to base voltage	V <sub>EBO</sub>	$I_{\rm E} = 10 \mu A, I_{\rm C} = 0$	3			V
Forward current transfer ratio	h <sub>FE</sub>	$V_{CB} = 10V, I_E = -2mA$	25		250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

\*hFE Rank classification

Rank	Т	S		
f <sub>T</sub> (MHz)	600 ~ 1300	900 ~ 1600		



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