# 2SA1127

# Silicon PNP epitaxial planer type

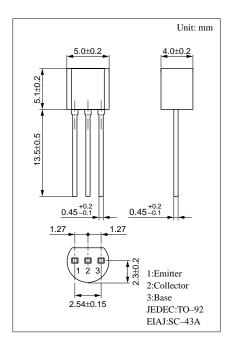
For low-frequency and low-noise amplification Complementary to 2SC2634

### Features

- Low noise characteristics.
- High foward current transfer ratio h<sub>FE</sub>.

## Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	$V_{CBO}$	-60	V
Collector to emitter voltage	$V_{CEO}$	-55	V
Emitter to base voltage	$V_{\rm EBO}$	-7	V
Peak collector current	$I_{CP}$	-200	mA
Collector current	$I_{C}$	-100	mA
Collector power dissipation	$P_{C}$	400	mW
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	$T_{stg}$	<b>−55 ~ +150</b>	°C



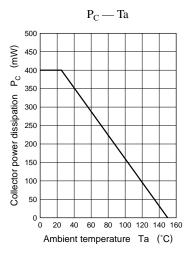
# Electrical Characteristics (Ta=25°C)

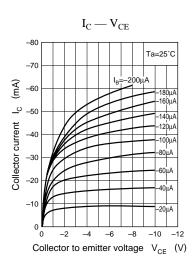
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	$I_{CBO}$	$V_{CB} = -10V, I_{E} = 0$		-1	-100	nA
	I <sub>CEO</sub>	$V_{CE} = -10V, I_{B} = 0$		- 0.01	-1	μΑ
Collector to base voltage	V <sub>CBO</sub>	$I_{\rm C} = -10 \mu A, I_{\rm E} = 0$	-60			V
Collector to emitter voltage	V <sub>CEO</sub>	$I_{C} = -1mA, I_{B} = 0$	-55			V
Emitter to base voltage	V <sub>EBO</sub>	$I_{\rm E} = -10\mu A, I_{\rm C} = 0$	-7			V
Forward current transfer ratio	h <sub>FE</sub> *	$V_{CE} = -5V, I_{C} = -2mA$	180		700	
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	$I_C = -100 \text{mA}, I_B = -10 \text{mA}$			- 0.6	V
Base to emitter voltage	V <sub>BE</sub>	$V_{CE} = -1V, I_{C} = -30mA$			-1	V
Transition frequency	$f_{T}$	$V_{CB} = -5V, I_E = 2mA, f = 200MHz$ 200			MHz	
Noise voltage	NV	$V_{CE} = -10V, I_{C} = -1mA, G_{V} = 80dB$			150	mV
		$R_g = 100k\Omega$ , Function = FLAT				<b>v</b>

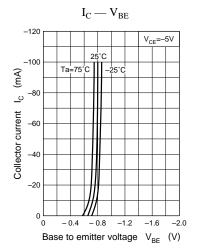
### \*hFE Rank classification

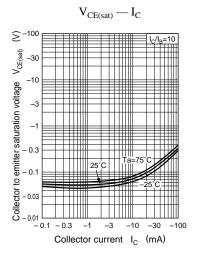
Rank	R	S	T
$h_{FE}$	180 ~ 360	260 ~ 520	360 ~ 700

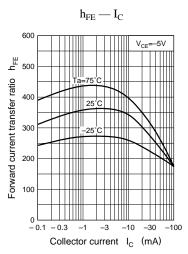
Transistor 2SA1127

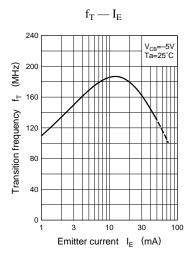


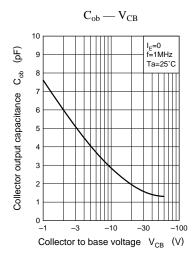


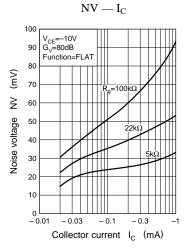












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