# 2SA1127

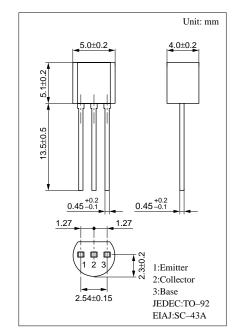
### Silicon PNP epitaxial planer type

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

#### Features

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

Parameter	Symbol	Ratings	Unit			
Collector to base voltage	V <sub>CBO</sub>	-60	V			
Collector to emitter voltage	V <sub>CEO</sub>	-55	V			
Emitter to base voltage	$V_{EBO}$	_7	V			
Peak collector current	I <sub>CP</sub>	-200	mA			
Collector current	I <sub>C</sub>	-100	mA			
Collector power dissipation	P <sub>C</sub>	400	mW			
Junction temperature	Tj	150	°C			
Storage temperature	T <sub>stg</sub>	-55 ~ +150	°C			



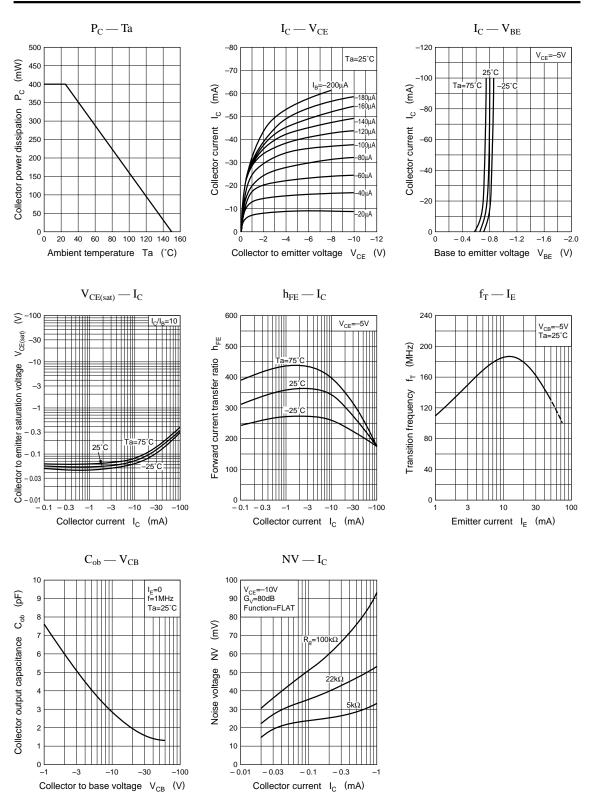
#### Absolute Maximum Ratings (Ta=25°C)

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

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I <sub>CBO</sub>	$V_{CB} = -10V, I_E = 0$		-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>	$I_C = -10 \mu A, \ I_E = 0$	-60			V
Collector to emitter voltage	V <sub>CEO</sub>	$I_C = -1 mA, I_B = 0$	-55			v
Emitter to base voltage	V <sub>EBO</sub>	$I_E = -10\mu A, I_C = 0$	_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>	$I_{\rm C} = -100 {\rm mA}, I_{\rm B} = -10 {\rm mA}$			- 0.6	V
Base to emitter voltage	V <sub>BE</sub>	$V_{CE} = -1V, I_C = -30mA$			-1	V
Transition frequency	f <sub>T</sub>	$V_{CB} = -5V$ , $I_E = 2mA$ , $f = 200MHz$		200		MHz
Noise voltage	NV	$V_{CE} = -10V, I_C = -1mA, G_V = 80dB$ $R_g = 100k\Omega$ , Function = FLAT			150	mV

#### \*hFE Rank classification

Rank	R	S	Т
h <sub>FE</sub>	180 ~ 360	260 ~ 520	360 ~ 700



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