2SA1127

Silicon PNP epitaxial planer type

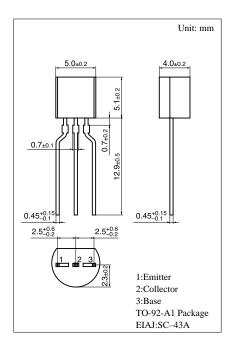
For low-frequency and low-noise amplification Complementary to 2SC2634

Features

- Low noise characteristics.
- High foward current transfer ratio h_{FE}.

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_{j}	150	°C
Storage temperature	T_{stg}	−55 ~ +150	°C



Electrical Characteristics (Ta=25°C)

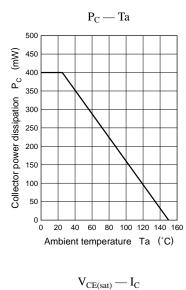
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -10V, I_E = 0$		-1	-100	nA
	I_{CEO}	$V_{CE} = -10V, I_B = 0$		- 0.01	-1	μΑ
Collector to base voltage	V _{CBO}	$I_{\rm C} = -10 \mu A, I_{\rm E} = 0$	-60			V
Collector to emitter voltage	V _{CEO}	$I_{C} = -1 \text{mA},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

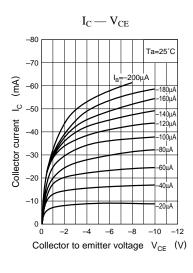
*h_{FE} Rank classification

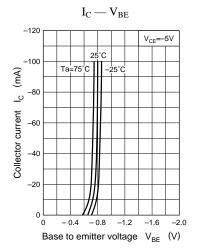
Rank	R	S	T
h_{FE}	180 ~ 360	260 ~ 520	360 ~ 700

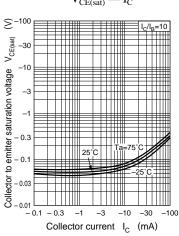
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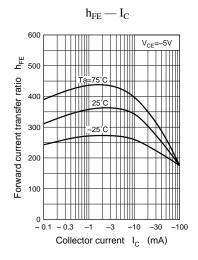
Transistor 2SA1127

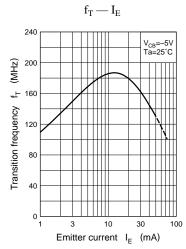


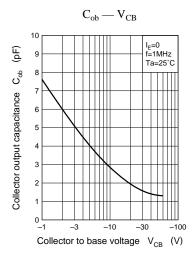


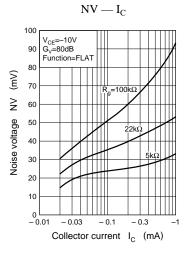












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