2SC2634

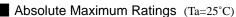
Silicon NPN epitaxial planer type

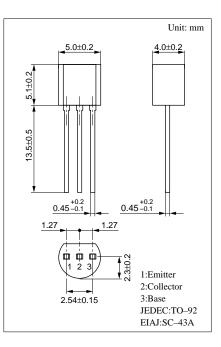
For low-frequency and low-noise amplification Complementary to 2SA1127

Features

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

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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 _{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	Tj	150	°C
Storage temperature	T _{stg}	-55 ~ +150	°C



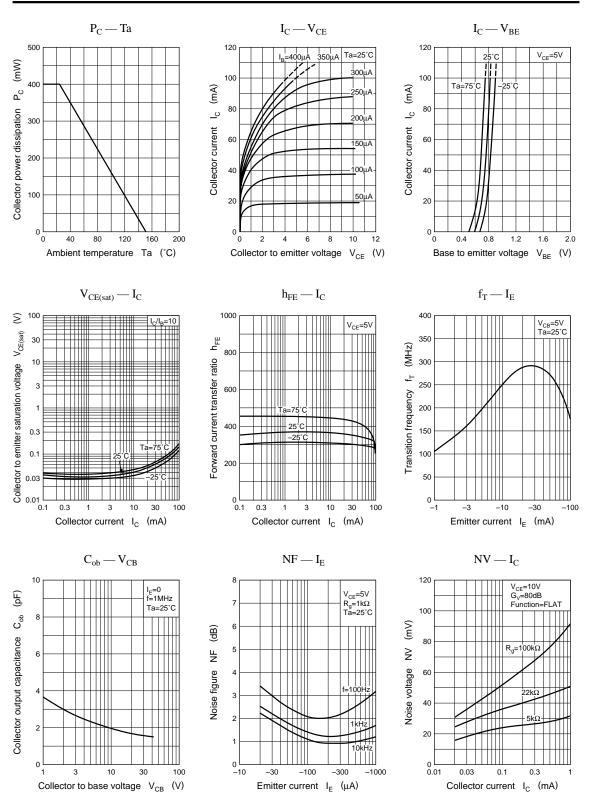


Electrical Characteristics (Ta=25°C)

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}	$I_C = 10 \mu A, I_E = 0$	60			v
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = 1 \text{mA}, I_{\rm B} = 0$	55			v
Emitter to base voltage	V _{EBO}	$I_E = 10\mu A, I_C = 0$	7			v
Forward current transfer ratio	h _{FE} *	$V_{CE} = 5V, I_C = 2mA$	180		700	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{CE} = 100 \text{mA}, I_{B} = 10 \text{mA}$			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			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
\mathbf{h}_{FE}	180 ~ 360	260 ~ 520	360 ~ 700



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