2SC2634

Silicon NPN epitaxial planar type

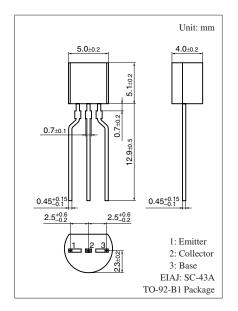
For low-frequency and low-noise amplification Complementary to 2SA1127

■ Features

- Low noise voltage NV
- \bullet High forward current transfer ratio h_{FE}

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	60	V	
Collector-emitter voltage (Base open)	V _{CEO}	55	V	
Emitter-base voltage (Collector open)	V_{EBO}	7	V	
Collector current	I_C	100	mA	
Peak collector current	I_{CP}	200	mA	
Collector power dissipation	P _C	400	mW	
Junction temperature	T_{j}	T _j 150		
Storage temperature	T _{stg}	-55 to +150	°C	



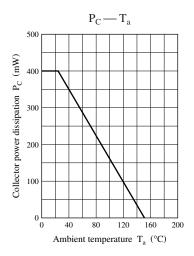
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

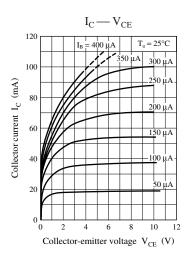
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = 10 \mu \text{A}, I_{\rm E} = 0$	60			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_C = 1 \text{ mA}, I_B = 0$	55			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = 10 \ \mu A, I_C = 0$	7			V
Base-emitter voltage	V _{BE}	$V_{CE} = 1 \text{ V}, I_{C} = 30 \text{ mA}$			1	V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = 10 \text{ V}, I_{E} = 0$		1	100	nA
Collector-emitter cutoffcurrent (Base open)	I_{CEO}	$V_{CE} = 10 \text{ V}, I_{B} = 0$		0.01	1.00	μΑ
Forward current transfer ratio *	h _{FE}	$V_{CE} = 5 \text{ V}, I_{C} = 2 \text{ mA}$	180		700	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = 100 \text{ mA}, I_B = 10 \text{ mA}$			0.6	V
Transition frequency	f_T	$V_{CB} = 5 \text{ V}, I_{E} = -2 \text{ mA}, f = 200 \text{ MHz}$		200		MHz
Noise voltage	NV	$V_{CE} = 10 \text{ V}, I_{C} = 1 \text{ mA}, G_{V} = 80 \text{ dB}$			150	mV
		$R_g = 100 \text{ k}\Omega$, Function = FLAT				

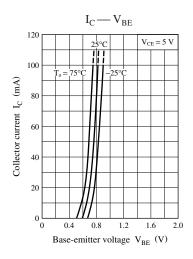
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

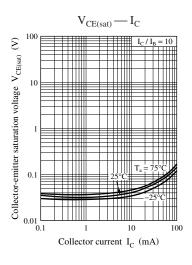
2. *: Rank classification

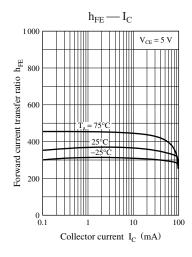
Rank	R	S	Т
h_{FE}	180 to 360	260 to 520	360 to 700

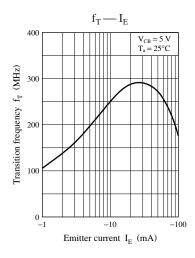


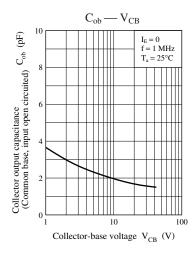


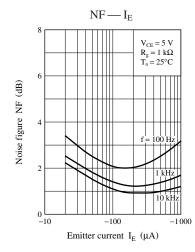


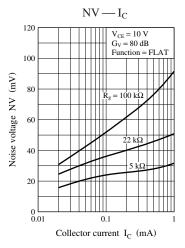












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