

2SC2634

Silicon NPN epitaxial planar type

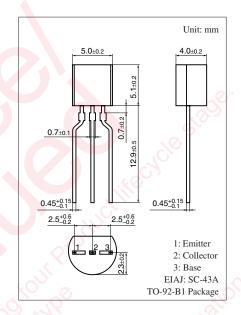
For low-frequency and low-noise amplification Complementary to 2SA1127

■ Features

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

■ Absolute Maximum Ratings $T_a = 25$ °C

Symbol	Rating	Unit
V _{CBO}	60	V
V_{CEO}	55	V
V _{EBO}	7	V
I_{C}	100	mA
I_{CP}	200	mA
P _C	400	mW
T _j	150	°C
T _{stg}	-55 to +150	°C
	$\begin{array}{c} V_{CBO} \\ V_{CEO} \\ V_{EBO} \\ I_{C} \\ I_{CP} \\ P_{C} \\ T_{j} \end{array}$	V _{CBO} 60 V _{CEO} 55 V _{EBO} 7 I _C 100 I _{CP} 200 P _C 400 T _j 150



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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_C = 10 \mu\text{A}, I_E = 0$	60			V
Collector-emitter voltage (Base open)	V _{CEO}	V_{CEO} $I_C = 1 \text{ mA}, I_B = 0$				V
Emitter-base voltage (Collector open)	V_{EBO}	$I_{\rm EBO}$ $I_{\rm E} = 10 \mu {\rm A}, I_{\rm C} = 0$				V
Base-emitter voltage	V _{BE}	$V_{BE} \qquad V_{CE} = 1 \text{ V, } I_{C} = 30 \text{ mA}$			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}	I_{CEO} $V_{CE} = 10 \text{ V}, I_{B} = 0$		0.01	1.00	μΑ
Forward current transfer ratio *	h _{FE}	$V_{CE} = 5 \text{ V}, I_C = 2 \text{ mA}$			700	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 100 \text{ mA}, I_{\rm B} = 10 \text{ mA}$			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
N.	1	$R_g = 100 \text{ k}\Omega$, Function = FLAT				

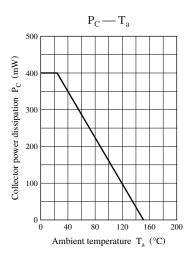
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

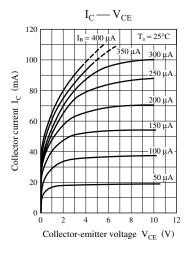
2. *: Rank classification

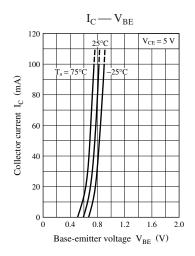
Rank	R	S	Т
h_{FE}	180 to 360	260 to 520	360 to 700

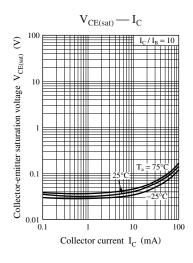
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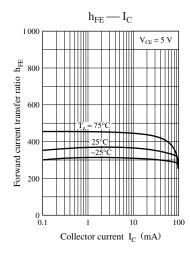
Panasonic

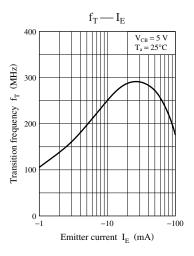


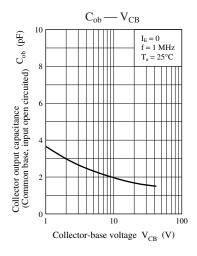


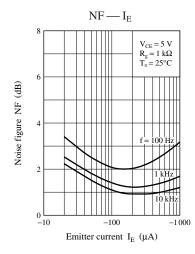


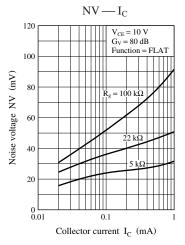












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