2SA1124

Silicon PNP epitaxial planar type

For low-frequency high breakdown voltage amplification Complementary to 2SC2632

■ Features

- \bullet Satisfactory forward current transfer ratio h_{FE} collector current I_{C} characteristics.
- \bullet High collector-emitter voltage (Base open) V_{CEO}
- \bullet Small collector output capacitance (Common base, input open circuited) C_{ob}
- Makes up a complementary pair with 2SC2632, which is optimum for the pre-driver stage of a 40 W to 60 W output amplifier.

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V _{CBO}	-150	V
Collector-emitter voltage (Base open)	V _{CEO}	-150	V
Emitter-base voltage (Collector open)	V _{EBO}	-5	V
Collector current	I_{C}	-50	mA
Peak collector current	I_{CP}	-100	mA
Collector power dissipation	P_{C}	1	W
Junction temperature	T_{j}	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

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

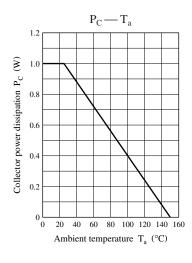
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -0.1 \text{mA}, I_{\rm B} = 0$	-150			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = -10 \mu A$, $I_{\rm C} = 0$	-5			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -100 \text{ V}, I_E = 0$			-1	μΑ
Forward current transfer ratio *	hpe	$V_{CE} = -5 \text{ V}, I_{C} = -2 \text{ mA}$	130		330	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = -30 \text{ mA}, I_B = -3 \text{ mA}$			-1	V
Transition frequency	$\mathrm{f_{T}}$	$V_{CB} = -10 \text{ V}, I_E = 10 \text{ mA}, f = 200 \text{ MHz}$		200		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$			5	pF
(Common base, input open circuited)						
Noise voltage	NV	$V_{CE} = -10 \text{ V}, I_{C} = -1 \text{ mA}, G_{V} = 80 \text{ dB}$		150	300	mV
		$R_g = 100 \text{ k}\Omega$, Function = FLAT				

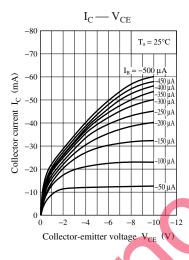
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

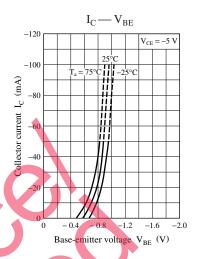
2. *: Rank classification

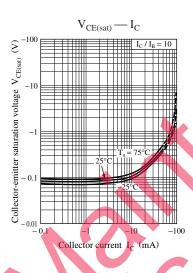
Rank	R	S
h_{FE}	130 to 220	185 to 330

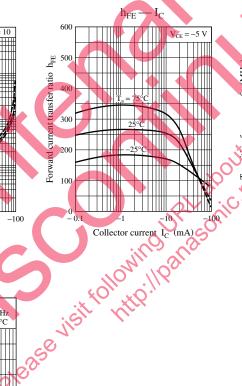
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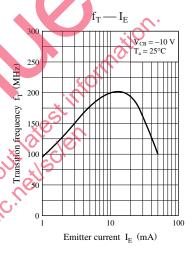


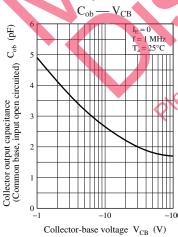












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