2SC4606

Silicon NPN epitaxial planar type

For low-frequency driver amplification Complementary to 2SA1762

■ Features

- High collector-emitter voltage (Base open) V_{CEO}
- Optimum for the driver stage of a low-frequency and 25 W to 30 W output amplifier
- M type package allowing easy automatic and manual insertion as well as stand-alone fixing to the printed circuit board

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Symbol Rating	
Collector-base voltage (Emitter open)	V _{CBO}	80	V
Collector-emitter voltage (Base open)	V _{CEO}	80	V
Emitter-base voltage (Collector open)	V_{EBO}	5	V
Collector current	I _C	0.5	A
Peak collector current	I _{CP}	1	A
Collector power dissipation *	P _C	1	W
Junction temperature	T_{j}	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

Note) *: Copper plate at the collector is more than 1 cm² in area, 1.7 mm in thickness

Unit: mm 6.9±0.1 (1.5) (1.5) (1.5) (1.5) (1.5) (1.6) (1.5) (1.6) (1.6) (1.6) (1.7) (1.8

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_C = 10 \mu\text{A}, I_E = 0$	80			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_C = 100 \mu\text{A}, I_B = 0$	80			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_E = 10 \mu A, I_C = 0$	5			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = 20 \text{ V}, I_E = 0$			0.1	μΑ
Forward current transfer ratio *1	h _{FE1} *2	$V_{CE} = 10 \text{ V}, I_{C} = 150 \text{ mA}$	130		330	_
	h _{FE2}	$V_{CE} = 5 \text{ V}, I_{C} = 500 \text{ mA}$	50	100		_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = 300 \text{ mA}, I_B = 30 \text{ mA}$			0.4	V
Base-emitter saturation voltage	V _{BE(sat)}	$I_C = 300 \text{ mA}, I_B = 30 \text{ mA}$			1.2	V
Transition frequency	f_T	$V_{CB} = 10 \text{ V}, I_E = -50 \text{ mA}, f = 200 \text{ MHz}$		120		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		11	20	pF
(Common base, input open circuited)						

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

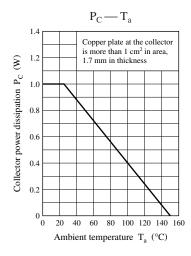
2. *1: Pulse measurement

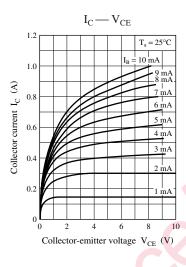
*2: Rank classification

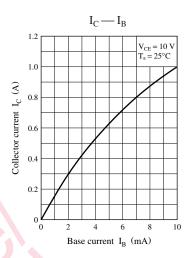
Rank	R	S
h _{FE1}	130 to 220	185 to 330

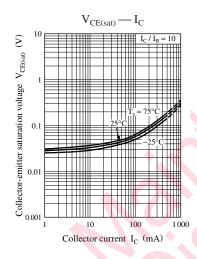
Note) The part number in the parenthesis shows conventional part number.

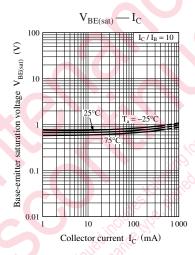
Panasonic

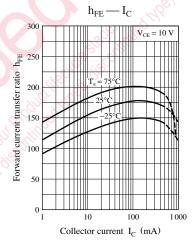


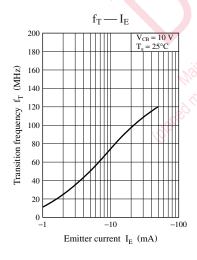


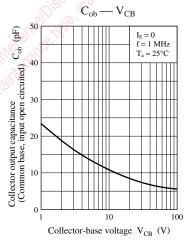


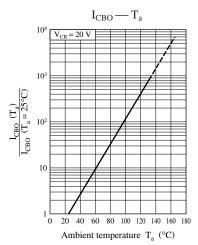


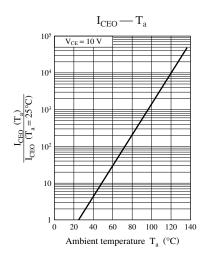


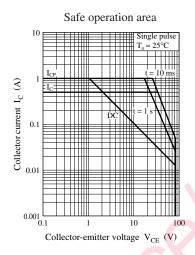












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