Transistors

Unit: mm

2.5±0.1

(0.8)

3: Base MT-2-A1 Package

2SB1434

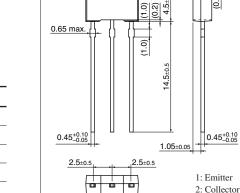
Silicon PNP epitaxial planer type

For low-frequency output amplification Complementary to 2SD2177

Features

- \bullet Low collector-emitter saturation voltage $V_{CE(sat)}$
- Allowing supply with the radial taping

Absolute Maximum Ratings $T_a = 25^{\circ}C$						
Parameter	Symbol	Rating	Unit			
Collector-base voltage (Emitter open)	V _{CBO}	-50	V			
Collector-emitter voltage (Base open)	V _{CEO}	-50	V			
Emitter-base voltage (Collector open)	V _{EBO}	-5	V			
Collector current	I _C	-2	А			
Peak collector current	I _{CP}	-3	А			
Collector power dissipation *	P _C	1	W			
Junction temperature	Tj	150	°C			
Storage temperature	T _{stg}	-55 to +150	°C			



6.9±0.1

4.0

0.7

Note) *: Print circuit board: Copper foil area of 1 cm² or more, and the board thickness of 1.7 mm for the collector portion

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \ \mu A, \ I_{\rm E} = 0$	-50			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -1 \text{ mA}, I_{\rm B} = 0$	-50			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	h _{FE1} *2	$V_{CE} = -2 V, I_C = -200 mA$	120		340	_
	h _{FE2} *1	$V_{CE} = -2 V, I_C = -1 A$	60			
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_{C} = -1 A, I_{B} = -50 mA$		- 0.2	- 0.3	V
Base-emitter saturation voltage *1	V _{BE(sat)}	$I_{C} = -1 \text{ A}, I_{B} = -50 \text{ mA}$		- 0.85	-1.20	V
Transition frequency	f _T	$V_{CB} = -10 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$		110		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		40	60	pF
(Common base, input open circuited)						

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

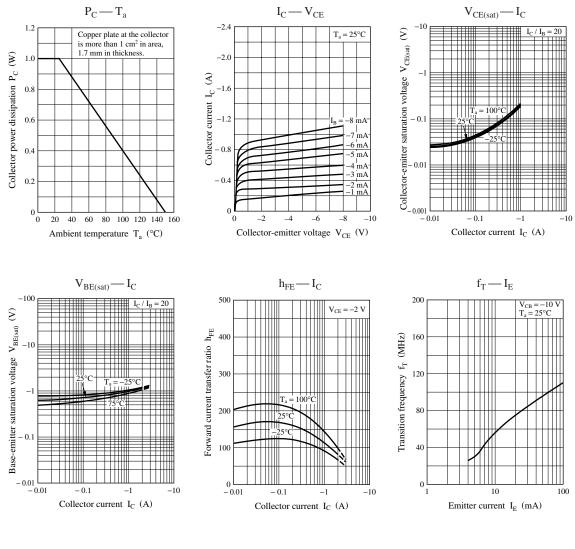
2. *1: Pulse measurement

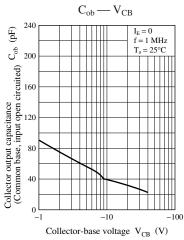
*2: Rank classification

Rank	R	S	No-rank
h _{FE1}	120 to 240	170 to 340	120 to 340

Product of no-rank is not classification is not marked.

Panasonic





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