2SB1434

Silicon PNP epitaxial planer type

For low-frequency output amplification Complementary to 2SD2177

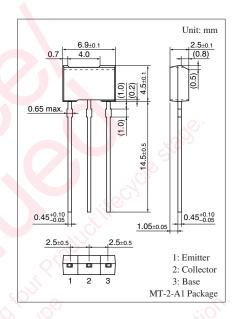
■ Features

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

■ Absolute Maximum Ratings $T_a = 25$ °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	A	
Peak collector current	I_{CP}	-3	A	
Collector power dissipation *	P _C	1	W	
Junction temperature	T_{j}	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

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 $T_a = 25$ °C ± 3 °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	V_{CBO} $I_{C} = -10 \mu\text{A}, I_{E} = 0$		350		V
Collector-emitter voltage (Base open)	V _{CEO}	$I_C = -1 \text{ mA}, I_B = 0$,0		V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = -10 \mu\text{A}, I_C = 0$	-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	$V_{CE} = -2 \text{ V}, I_{C} = -200 \text{ mA}$	120		340	_
	h _{FE2} *1	$V_{CE} = -2 \text{ V}, I_{C} = -1 \text{ A}$	60			
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_C = -1 \text{ A}, I_B = -50 \text{ mA}$		- 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 (Common base, input open circuited)	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		40	60	pF

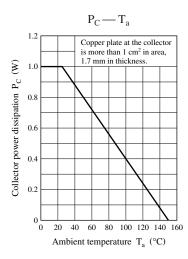
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

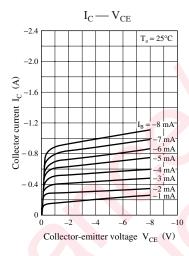
2. *1: Pulse measurement

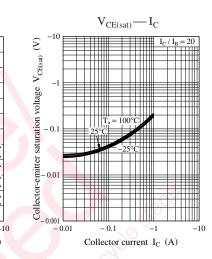
*2: Rank classification

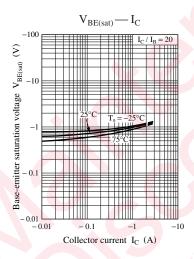
Rank	R	S	No-rank
h _{FE1}	120 to 240	170 to 340	120 to 340

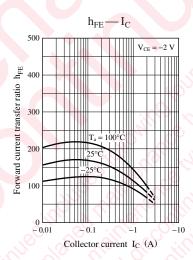
Product of no-rank is not classification is not marked.

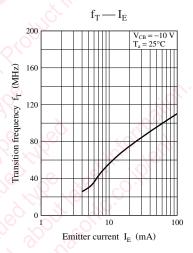


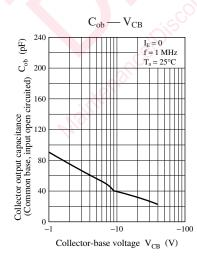












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