2SB1446

Silicon PNP epitaxial planer type

For low-frequency output amplification Complementary to 2SD2179

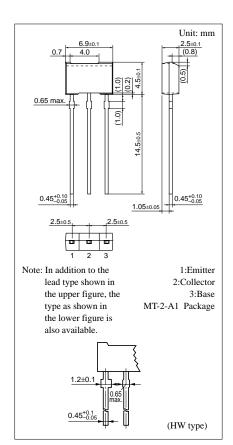
Features

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

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	-50	V
Collector to emitter voltage	V_{CEO}	-50	V
Emitter to base voltage	V_{EBO}	-5	V
Peak collector current	I_{CP}	-7	A
Collector current	I_{C}	-5	A
Collector power dissipation	${P_C}^*$	1	W
Junction temperature	T _j	150	°C
Storage temperature	T_{stg}	−55 ~ +150	°C

^{*} Printed circuit board: Copper foil area of 1cm² or more, and the board thickness of 1.7mm for the collector portion



Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -20V, I_E = 0$			- 0.1	μА
Collector to base voltage	V _{CBO}	$I_{\rm C} = -10\mu{\rm A}, I_{\rm E} = 0$	-50			V
Collector to emitter voltage	V _{CEO}	$I_{C} = -1 \text{mA}, I_{B} = 0$	-50			V
Emitter to base voltage	V _{EBO}	$I_{\rm E} = -10 \mu A, I_{\rm C} = 0$	-5			V
	h _{FE1} *1	$V_{CE} = -2V, I_{C} = -500 \text{mA}^{*2}$	120		340	
Forward current transfer ratio	h _{FE2}	$V_{CE} = -2V, I_C = -2.5A^{*2}$	60			
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = -2A, I_B = -100 \text{mA}^{*2}$		- 0.2	- 0.3	V
Base to emitter saturation voltage	V _{BE(sat)}	$I_C = -2A, I_B = -100 \text{mA}^{*2}$		- 0.85	-1.2	V
Transition frequency	f_T	$V_{CB} = -10V$, $I_E = 50$ mA, $f = 200$ MHz		70		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$		90	120	pF

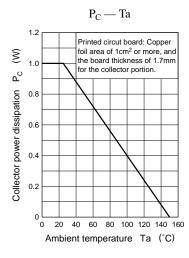
^{*2} Pulse measurement

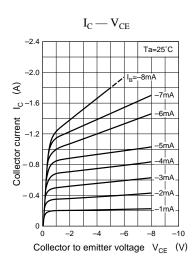
^{*1}hFE1 Rank classification

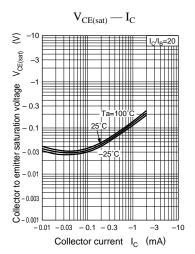
Rank	R	S
h_{FE1}	120 ~ 240	170 ~ 340

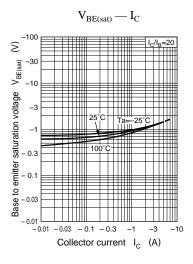
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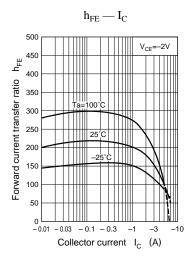
Transistor 2SB1446

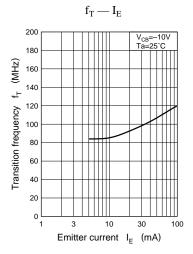


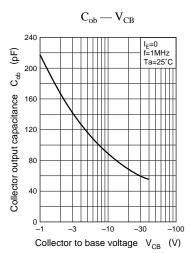












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