Panasonic

2SB1435

Silicon PNP epitaxial planar type

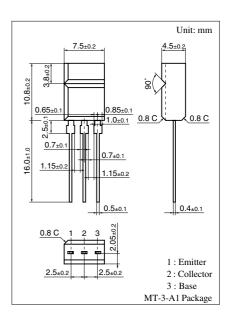
For low-frequency output amplification

■ Features

- \bullet Low collector to emitter saturation voltage $V_{\text{CE}(\text{sat})}$
- \bullet Large collector current I_{C}
- Allowing automatic insertion with radial taping

■ Absolute Maximum Ratings $T_C = 25$ °C

Parameter	Symbol	Rating	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}	-3	A
Collector current	I_{C}	-2	A
Collector power dissipation	P_{C}	1.5	W
Junction temperature	T_{j}	150	°C
Storage temperature	T_{stg}	-55 to +150	°C



■ Electrical Characteristics $T_C = 25$ °C

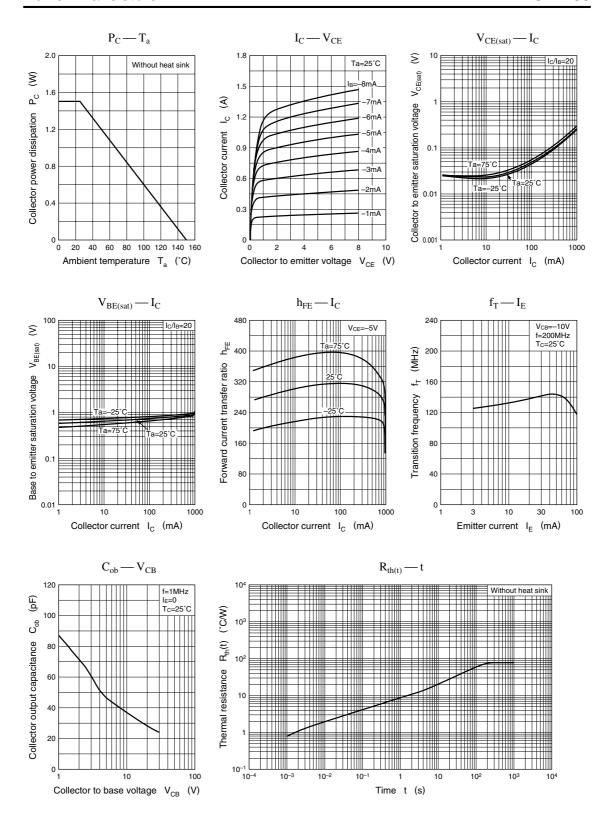
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -20 \text{ V}, I_E = 0$			- 0.1	μΑ
Collector to base voltage	V_{CBO}	$I_{\rm C} = -10 \; \mu \text{A}, \; I_{\rm E} = 0$	-50			V
Collector to emitter voltage	V_{CEO}	$I_{\rm C} = -1 \text{ mA}, I_{\rm B} = 0$	-50			V
Emitter to base voltage	V_{EBO}	$I_E = -10 \ \mu A, \ I_C = 0$	-5			V
Forward current transfer ratio	h _{FE1} *	$V_{CE} = -2 \text{ V}, I_C = -200 \text{ mA}$	120		340	
	h _{FE2}	$V_{CE} = -2 \text{ V}, I_{C} = -1 \text{ A}$	60			
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -1 \text{ A}, I_{\rm B} = -50 \text{ mA}$		- 0.2	- 0.3	V
Base to emitter saturation voltage	V _{BE(sat)}	$I_{\rm C} = -1 \text{ A}, I_{\rm B} = -50 \text{ mA}$		- 0.85	-1.2	V
Transition frequency	f_T	$V_{CB} = -10 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$		80		MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		45	60	pF

Note) *: Rank classification

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

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Power Transistors 2SB1435



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