2SB0835 (2SB835)

Silicon PNP epitaxial planer type

For low-frequency output amplification

Features

- ullet Low collector to emitter saturation voltage $V_{\text{CE(sat)}}$.
- M type package allowing easy automatic and manual insertion as well as stand-alone fixing to the printed circuit board.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	-20	V
Collector to emitter voltage	V _{CEO}	-18	V
Emitter to base voltage	V _{EBO}	-5	V
Peak collector current	I_{CP}	-2	A
Collector current	I_{C}	-1	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

Unit: mm 6.9±0.1 1.5 R0.9 1.5 R0.9 0.85 0.85±0.1 0.85±0.1 1.8ase 2:Collector EIAJ:SC-71 3:Emitter M Type Mold Package

Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -10V, I_E = 0$	A 0,0		-1	μΑ
	I_{CEO}	$V_{CE} = -18V, I_{B} = 0$	·00.,		-10	μA
Collector to base voltage	V_{CBO}	$I_{\rm C} = -10\mu A, I_{\rm E} = 0$	-20			V
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = -1 \text{mA}, I_{\rm B} = 0$	-18			V
Emitter to base voltage	V _{EBO}	$I_{\rm E} = -10 \mu A, I_{\rm C} = 0$	-5			V
Forward current transfer ratio	h _{FE1} *	$V_{CE} = -2V, I_{C} = -0.5A$	130		280	
	h _{FE2}	$V_{CE} = -2V, I_{C} = -1.5A$	50			
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = -1A, I_B = -50mA$			- 0.5	V
Base to emitter saturation voltage	V _{BE(sat)}	$I_C = -500 \text{mA}, I_B = -50 \text{mA}$			-1.2	V
Transition frequency	f_{T}	$V_{CB} = -6V$, $I_E = 50$ mA, $f = 200$ MHz		200		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -6V, I_E = 0, f = 1MHz$		40		pF

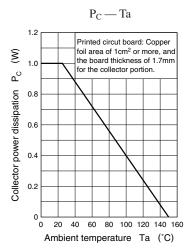
*h_{FE1} Rank classification

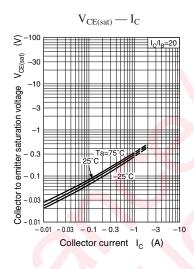
Rank	R	S
h_{FE1}	130 ~ 210	180 ~ 280

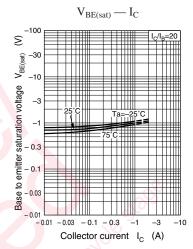
Note.) The Part number in the Parenthesis shows conventional part number.

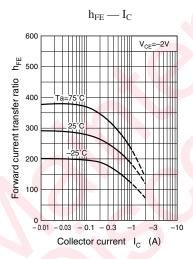
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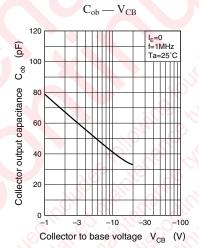
Transistor 2SB0835













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