# 2SB0767 (2SB767)

## Silicon PNP epitaxial planer type

For low-frequency output amplification Complementary to 2SD0875 (2SD875)

### Features

- Large collector power dissipation P<sub>C</sub>.
- High collector to emitter voltage V<sub>CEO</sub>.
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

## Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	$V_{CBO}$	-80	V
Collector to emitter voltage	$V_{CEO}$	-80	V
Emitter to base voltage	$V_{EBO}$	-5	V
Peak collector current	$I_{CP}$	-1	A
Collector current	$I_{C}$	- 0.5	A
Collector power dissipation	${P_C}^*$	1	W
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	$T_{stg}$	<b>−55 ~ +150</b>	°C

<sup>\*</sup> Printed circuit board: Copper foil area of 1cm² or more, and the board thickness of 1.7mm for the collector portion

# Unit: mm 4.5±0.1 1.6±0.2 1.5±0.1 1.

Marking symbol: C

## 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	μA
Collector to base voltage	V <sub>CBO</sub>	$I_{\rm C} = -10\mu A, I_{\rm E} = 0$	-80			V
Collector to emitter voltage	V <sub>CEO</sub>	$I_C = -100 \mu A, I_B = 0$	-80			V
Emitter to base voltage	V <sub>EBO</sub>	$I_{\rm E} = -10\mu A, I_{\rm C} = 0$	-5			V
Forward current transfer ratio	h <sub>FE1</sub> *1	$V_{CE} = -10V, I_C = -150 \text{mA}^{*2}$	90		330	
	h <sub>FE2</sub>	$V_{CE} = -5V, I_{C} = -500 \text{mA}^{*2}$	50	100		
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	$I_C = -300 \text{mA}, I_B = -30 \text{mA}^{*2}$		- 0.2	-0.4	V
Base to emitter saturation voltage	V <sub>BE(sat)</sub>	$I_C = -300 \text{mA}, I_B = -30 \text{mA}^{*2}$		- 0.85	-1.2	V
Transition frequency	$f_T$	$V_{CB} = -10V$ , $I_E = 50$ mA, $f = 200$ MHz		120		MHz
Collector output capacitance	C <sub>ob</sub>	$V_{CB} = -10V$ , $I_E = 0$ , $f = 1MHz$		20	30	pF

<sup>\*2</sup> Pulse measurement

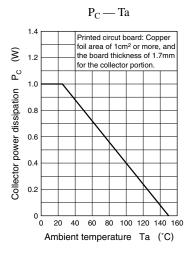
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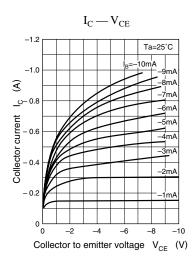
<sup>\*1</sup>h<sub>FE1</sub> Rank classification

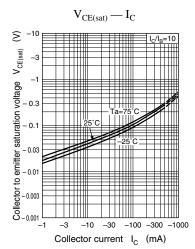
Rank	Q	R	S	
h <sub>FE1</sub>	90 ~ 155	130 ~ 220	185 ~ 330	
Marking Symbol	CQ	CR	CS	

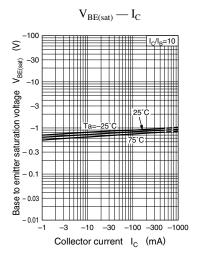
Note.) The Part number in the Parenthesis shows conventional part number.

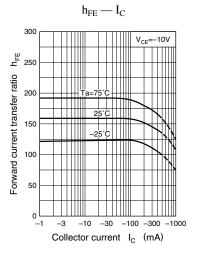
Transistor 2SB0767

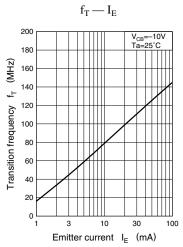


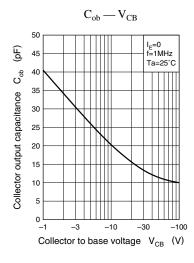


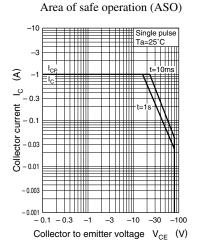












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