2SB0767 (2SB767)

Silicon PNP epitaxial planer type

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

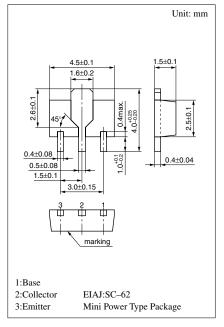
Features

- Large collector power dissipation P_C.
- High collector to emitter voltage V_{CEO}.
- 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 _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



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 _{CBO}	$I_{\rm C} = -10\mu A, I_{\rm E} = 0$	-80			V
Collector to emitter voltage	V _{CEO}	$I_C = -100 \mu A, I_B = 0$	-80			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} *1	$V_{CE} = -10V, I_C = -150 \text{mA}^{*2}$	90		330	
	h _{FE2}	$V_{CE} = -5V, I_{C} = -500 \text{mA}^{*2}$	50	100		
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = -300 \text{mA}, I_B = -30 \text{mA}^{*2}$		- 0.2	-0.4	V
Base to emitter saturation voltage	V _{BE(sat)}	$I_C = -300 \text{mA}, I_B = -30 \text{mA}^{*2}$		- 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 _{ob}	$V_{CB} = -10V$, $I_E = 0$, $f = 1MHz$		20	30	pF

^{*2} Pulse measurement

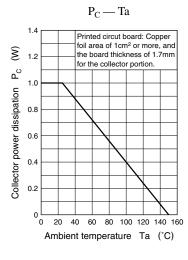
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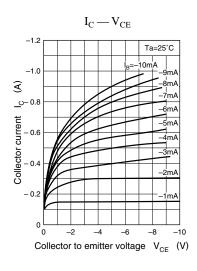
^{*1}h_{FE1} Rank classification

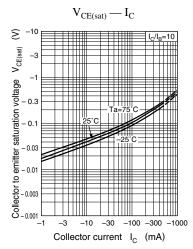
Rank	Q	R	S	
h _{FE1}	90 ~ 155	130 ~ 220	185 ~ 330	
Marking Symbol	CQ	CR	CS	

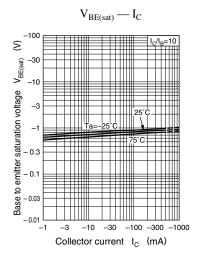
Note.) The Part number in the Parenthesis shows conventional part number.

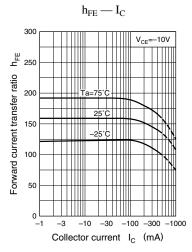
Transistor 2SB0767

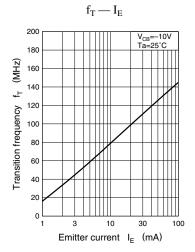


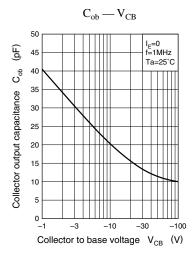


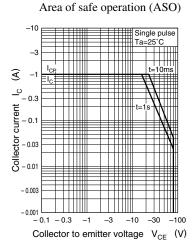












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