2SB0956 (2SB956)

Silicon PNP epitaxial planer type

For low-frequency power amplification Complementary to 2SD1280

Features

- Large collector power dissipation P_C.
- Low collector to emitter saturation voltage V_{CE(sat)}.
- Mini Power 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}	-20	V
Collector to emitter voltage	V_{CEO}	-20	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 $1 \mathrm{cm}^2$ or more, and the board thickness of 1.7mm for the collector portion

Unit: mm 4.5±0.1 1.6±0.2 4.5±0.1 1.6±0.2 4.5±0.1 1.5±0.1 3.0±0.15 3.0±0.15 1:Base 2:Collector 3:Emitter Mini Power Type Package

Marking symbol: H

Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -10V, I_{E} = 0$			-1	μA
Collector to emitter voltage	V_{CEO}	$I_{\rm C} = -1 \text{mA}, I_{\rm B} = 0$	-20			V
Emitter to base voltage	V_{EBO}	$I_E = -10\mu A, I_C = 0$	-5			V
Forward current transfer ratio	h _{FE1} *1	$V_{CE} = -2V, I_{C} = -500 \text{mA}^{*2}$	130		280	
	h _{FE2}	$V_{CE} = -2V, I_{C} = -1.5A^{*2}$	50			
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = -1A, I_B = -50 \text{mA}^{*2}$			- 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

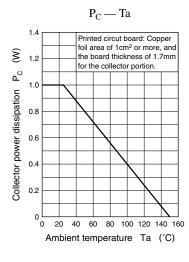
^{*2} Pulse measurement

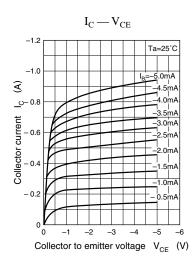
^{*1}h_{FE1} Rank classification

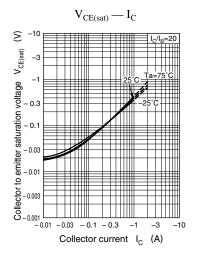
Rank	R	S		
h _{FE1}	130 ~ 210	180 ~ 280		
Marking Symbol	HR	HS		

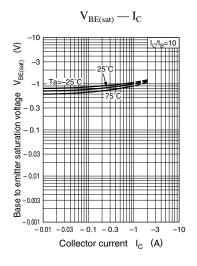
Note.) The Part number in the Parenthesis shows conventional part number.

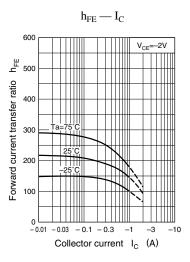
Transistor 2SB0956

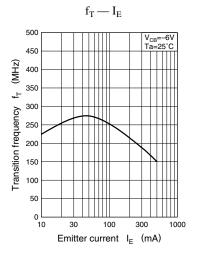


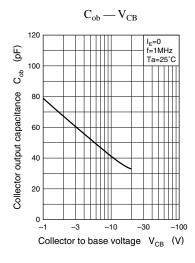


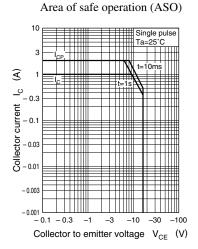












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