2SB0956G

Silicon PNP epitaxial planar type

For low-frequency output amplification Complementary to 2SD1280G

Features

- Large collector power dissipation P_C
- \bullet Low collector-emitter saturation voltage $V_{\mbox{CE(sat)}}$
- Mini Power type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

Absolute Maximum Ratings $T_a = 25^{\circ}C$

Symbol	Rating	Unit
V _{CBO}	-20	v
V _{CEO}	-20	V
V _{EBO}	-5	V
I _C	-1	A
I _{CP}	-2	A
P _C	1	WO
Tj	150	<°C
T _{stg}	-55 to +150	≥ °C
	V _{CBO} V _{CEO} V _{EBO} I _C I _C P _C T _j	$\begin{array}{c c} V_{CBO} & -20 \\ V_{CEO} & -20 \\ V_{EBO} & -5 \\ I_C & -1 \\ I_{CP} & -2 \\ P_C & 1 \\ T_j & 150 \\ \end{array}$

- Package
- Code
- MiniP3-F2
- Pin Name
 - 1: Base
 - 2: Collector
 - 3: Emitter

Marking Symbol: H

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Note)	*: Print cir	cuit board: O	Co <mark>pp</mark> er foil a	area of 1 cm ² o	or more, and th	ie boar
	thicknes	s of 1.7 mn	n for the co	llector portior		

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

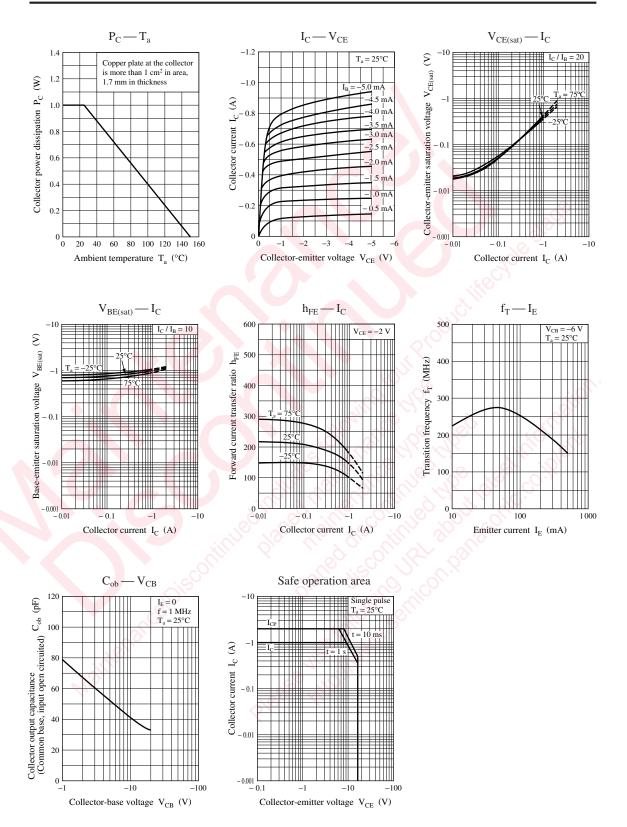
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -1 {\rm mA}, I_{\rm B} = 0$	-20			V
Emiter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = -10 \ \mu A, I_{\rm C} = 0$	-5			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -10 \text{ V}, I_E = 0$			-1	μΑ
Forward current transfer ratio *1	h _{FE1} *2	$V_{CE} = -2 \text{ V}, I_C = -500 \text{ mA}$	130		280	
	h _{FE2}	$V_{CE} = -2 V, I_C = -1.5 A$	50			
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_{C} = -1 A, I_{B} = -50 mA$			- 0.5	V
Base-emitter saturation voltage *1	V _{BE(sat)}	$I_{\rm C} = -500 \text{ mA}, I_{\rm B} = -50 \text{ mA}$			-1.2	V
Transition frequency	f _T	$V_{CB} = -6 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$		200		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -6 V, I_E = 0, f = 1 MHz$		40		pF
(Common base, input open circuited)						

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *1: Pulse measurement

*2: Rank classification					
Rank	R	S			
h _{FE1}	130 to 210	180 to 280			

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MiniP3-F2 Unit: mm 4.50 ±0.10 1.60 ±0.20 1.50 ±0.10 2.50 ±0.10 4.00 ± 0.20 (2°) 3 1 2 0.41 ±0.03 0.40 ±0.08 0.50 ±0.08 1.00 ± 0.10 1.50 ±0.10 (5°) 2.60 ±0.10 0.50 max. (45°) $3.00{\scriptstyle~\pm0.15}$

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