Power Transistors

Panasonic

2SB0968 (2SB968)

Silicon PNP epitaxial planar type

For low-frequency output amplification Complementary to 2SD1295

Features

- Possible to solder radiation fin directly to printed circuit board
- \bullet High collector-emitter voltage (Base open) $V_{\mbox{CEO}}$
- \bullet Large collector power dissipation P_{C}

Package

- Code
- U-G2
- Pin Name
 - 1: Base
- 2: Collector
- 3: Emitter

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

Parameter	Symbol	Rating	Unit			
Collector-base voltage (Emitter open)	V _{CBO}	-50	V			
Collector-emitter voltage (Base open)	V _{CEO}	-40	V			
Emitter-base voltage (Collector open)	V _{EBO}	-5	V			
Collector current	I _C	-1.5	А			
Peak collector current	I _{CP}	-3	А			
Collector power dissipation ($T_C = 25^{\circ}C$)	P _C	10	W			
Junction temperature	Tj	150	°C			
Storage temperature	T _{stg}	-55 to +150	°C			

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -1 {\rm mA}, I_{\rm E} = 0$	-50			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-40			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -20 \text{ V}, I_E = 0$			-1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -10 \text{ V}, I_B = 0$			-100	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = -5 V, I_C = 0$			-10	μΑ
Forward current transfer ratio	h _{FE1} *	$V_{CE} = -5 V, I_C = -1 A$	80		220	
	h _{FE2}	$V_{CE} = -5 V, I_C = -1 mA$	10			
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -1.5 \text{ A}, I_{\rm B} = -0.15 \text{ A}$			-1	V
Base-emitter saturation voltage	V _{BE(sat)}	$I_{\rm C} = -2$ A, $I_{\rm B} = -0.2$ A			-1.5	V
Transition frequency	f _T	$V_{CE} = -5 \text{ V}, I_C = -0.5 \text{ A}, f = 200 \text{ MHz}$		150		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -20 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		45		pF
(Common base, input open circuited)						

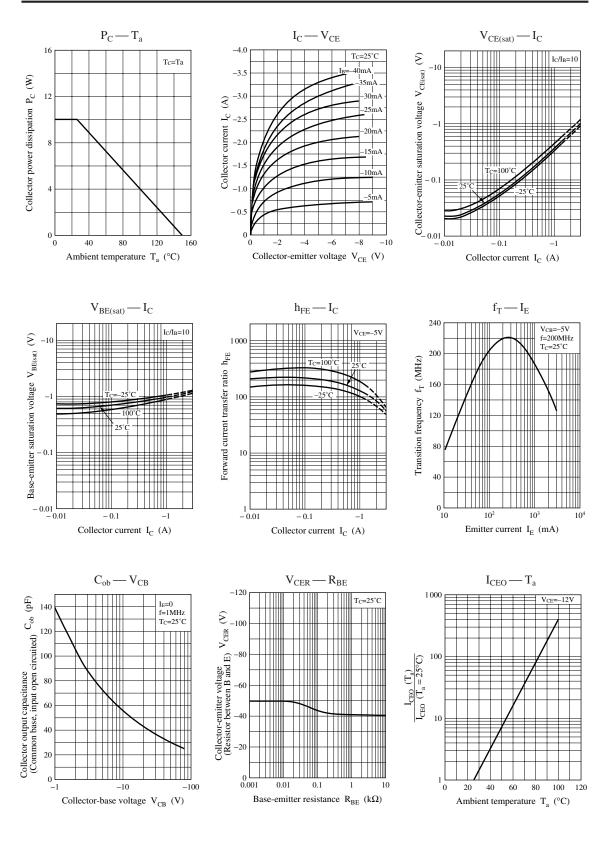
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Rank classification

Rank	Q	R
h _{FE1}	80 to 160	120 to 220

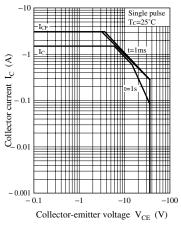
Note) The part number in the parenthesis shows conventional part number.

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2SB0968

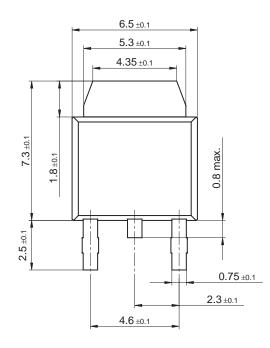




2SB0968

U-G2

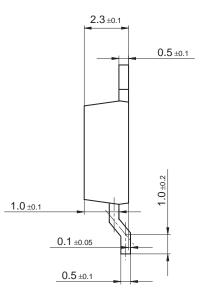
Unit: mm

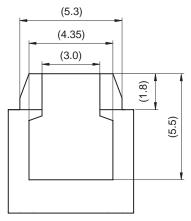


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