2SB0789G

Silicon PNP epitaxial planar type

For low-frequency driver amplification

Features

- \bullet High collector-emitter voltage (Base open) $V_{\mbox{CEO}}$
- \bullet Large collector power dissipation $P_{\rm C}$

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

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	-120	v	
Collector-emitter voltage (Base open)	V _{CEO}	-120	V	
Emitter-base voltage (Collector open)	V _{EBO}	-5	V	
Collector current	I _C	- 0.5	А	
Peak collector current	I _{CP}	-1	А	
Collector power dissipation *	P _C	1	W	
Junction temperature	Tj	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

Note) *: Print circuit board: Copper foil area of 1 cm² or more, and the board thickness of 1.7 mm for the collector portion.

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}	$I_{\rm C} = -100 \ \mu A, \ I_{\rm B} = 0$	-120			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = -10 \ \mu A, I_{\rm C} = 0$	-5			V
Forward current transfer ratio *1	h _{FE1} *2	$V_{CE} = -10 \text{ V}, I_C = -150 \text{ mA}$	90		220	
	h _{FE2}	$V_{CE} = -5 \text{ V}, I_C = -500 \text{ mA}$	50			
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_{\rm C} = -500 \text{ mA}, I_{\rm B} = -50 \text{ mA}$		- 0.2	- 0.6	V
Base-emitter saturation voltage *1	V _{BE(sat)}	$I_{\rm C} = -500 \text{ mA}, I_{\rm B} = -50 \text{ mA}$		- 0.85	-1.20	V
Transition frequency	f _T	$V_{CB} = -10 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$		120		MHz
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$			30	pF

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

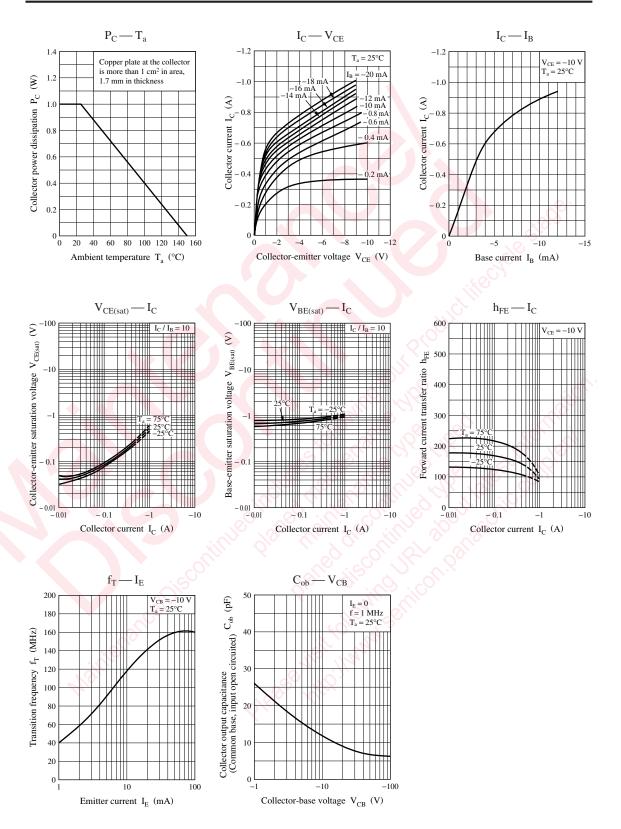
2. *1: Pulse measurement

*2: Rank classification

Rank	Q	R
h _{FE1}	90 to 155	130 to 220

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

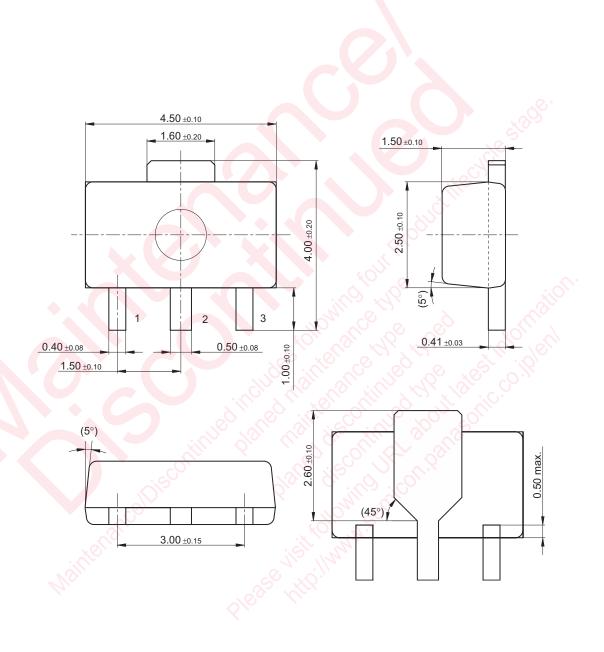
Panasonic



Panasonic

MiniP3-F2

Unit: mm



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