DSA7004

Silicon PNP epitaxial planar type

For low frequency output amplification Complementary to DSC7004

■ Features

- ullet Low collector-emitter saturation voltage $V_{\text{CE(sat)}}$
- Eco-friendly Halogen-free package

■ Packaging

Embossed type (Thermo-compression sealing): 1000 pcs / reel (standard)

■ Absolute Maximum Ratings T_a = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V_{CBO}	-60	V
Collector-emitter voltage (Base open)	age (Base open) V _{CEO}		
Emitter-base voltage (Collector open)	V _{EBO}	-5	V
Collector current	I_{C}	-2	A
Peak collector current	I_{CP}	-3	A
Collector power dissipation *	P _C	1	W
Junction temperature	T_j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

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

 P_{C} absolute maximum rating without a heat shink: 0.5 W

■ Package

Code

MiniP3-F2-B

- Pin Name
 - 1. Base
 - 2. Collector
 - 3. Emitter
- Marking Symbol: 4B

■ Electrical Characteristics $T_a = 25$ °C±3°C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_{\rm C} = -10 \mu\text{A}, I_{\rm E} = 0$	-60			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -1 \text{ mA}, I_{\rm B} = 0$	-50			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_E = -10 \mu A, I_C = 0$	-5			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{\rm CB} = -20 \text{ V}, I_{\rm E} = 0$			-0.1	μΑ
Forward current transfer ratio *1	h _{FE1} *2	$V_{CE} = -2 \text{ V}, I_{C} = -200 \text{ mA}$	120		340	
	h _{FE2}	$V_{CE} = -2 \text{ V}, I_{C} = -1 \text{ A}$	60			_
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_C = -1 \text{ A}, I_B = -50 \text{ mA}$		-0.2	-0.3	V
Base-emitter saturation voltage *1	V _{BE(sat)}	$I_C = -1 \text{ A}, I_B = -50 \text{ mA}$		-0.9	-1.2	V
Transition frequency	f_T	$V_{CE} = -10 \text{ V}, I_{C} = -50 \text{ mA}$		120		MHz
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		33	60	pF

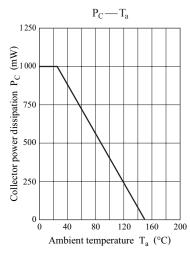
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

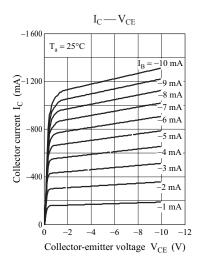
- 2. *1: Pulse measurement
 - *2: Rank classification

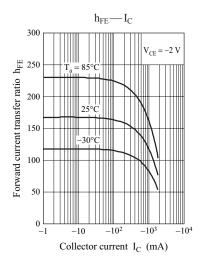
Code	R	S	0	
Rank	R	S	No-rank	
$h_{\mathrm{FE}1}$	120 to 240	170 to 340	120 to 340	
Marking Symbol	4BR	4BS	4B	

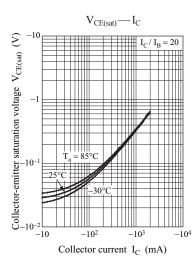
Product of no-rank is not classified and have no marking symbol for rank.

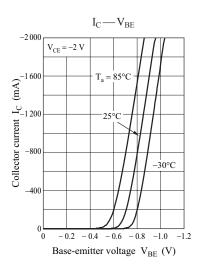
DSA7004 Panasonic

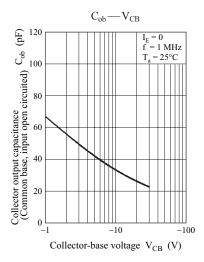


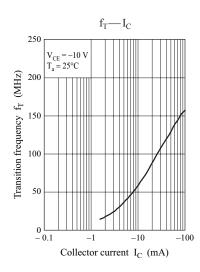










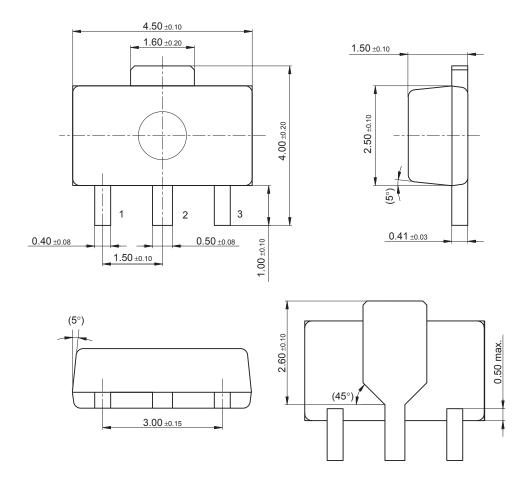


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Panasonic DSA7004

MiniP3-F2-B

Unit: mm



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