DSA4005

Silicon PNP epitaxial planar type

For general amplification Complementary to DSC4005 DSA2005 in NS through hole type package

Features

- \bullet High forward current transfer ratio h_{FE} with excellent linearity
- Low collector-emitter saturation voltage $V_{CE(sat)}$
- Contributes to miniaturization of sets, mount area reduction
- Eco-friendly Halogen-free package

Packaging

DSA4005×0A Radial type : 5000 pcs / carton

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

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V _{CBO}	-60	V
Collector-emitter voltage (Base open)	V _{CEO}	-50	V
Emitter-base voltage (Collector open)	V _{EBO}	-6	V
Collector current	I _C	-200	mA
Peak collector current	I _{CP}	-300	mA
Collector power dissipation	P _C	300	mW
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

Package

- Code
- NS-B2-B-B

Package dimension clicks here. \rightarrow

• Pin Name

- 1. Emitter
- 2. Collector
- 3. Base

Marking Symbol: A3

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}	$I_{\rm C} = -100 \ \mu {\rm A}, \ I_{\rm B} = 0$	-50			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -60 \text{ V}, I_E = 0$			- 0.1	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = -6 \text{ V}, I_C = 0$			- 0.1	μΑ
Forward current transfer ratio *1	h _{FE1} *2	$V_{CE} = -6 \text{ V}, I_C = -1 \text{ mA}$	150		390	
	h _{FE2}	$V_{CE} = -6 \text{ V}, I_C = -0.1 \text{ mA}$	90			
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_{\rm C} = -100 \text{ mA}, I_{\rm B} = -10 \text{ mA}$			- 0.3	V
Transition frequency	f_{T}	$V_{CE} = -6 \text{ V}, I_C = -10 \text{ mA}$		150		MHz
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = -6 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		5.0		pF

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

2. *1: Pulse measurement

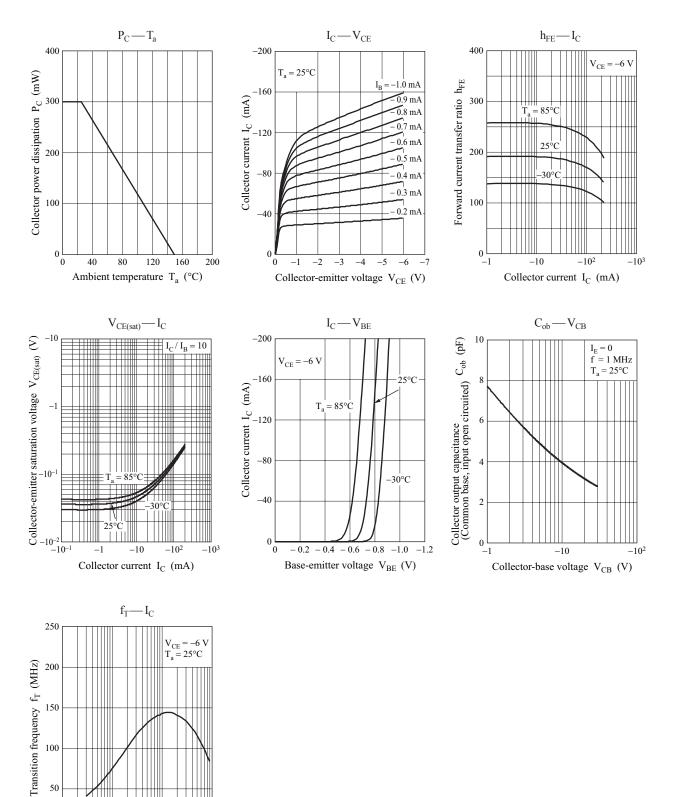
*2: Rank classification

Code	R	S	0
Rank	R	S	No-rank
h _{FE1}	150 to 270	200 to 390	150 to 390
Marking Symbol	A3R	A3S	A3

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

DSA4005

Panasonic



 -10^{2}

-10

 $^{-1}$

Collector current I_C (mA)

0

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