DSA7504

Silicon PNP epitaxial planar type

For low frequency amplification

Features

- \bullet Low collector-emitter saturation voltage $V_{\mbox{CE(sat)}}$
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

Packaging

DSA7504×0L Embossed type (Thermo-compression sealing): 1000 pcs / reel (standard)

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

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V _{CBO}	-30	V
Collector-emitter voltage (Base open)	V _{CEO}	-20	V
Emitter-base voltage (Collector open)	V _{EBO}	-7	V
Collector current	I _C	-4	А
Peak collector current	I _{CP}	-7	А
Collector power dissipation *	P _C	1	W
Junction temperature	T _j 150		°C
Storage temperature	T _{stg}	-55 to +150	°C

Package

- Code
 - MiniP3-F2-B

Package dimension clicks here. $\!\!\!\!\rightarrow$

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

Marking Symbol: 4F

Note) *: Printed circuit board: Copper foil area of 1 cm² or more, and the board thickness of 1.7 mm for the collector portion Absolute maximum rating without heat sink for P_C is 0.5 W

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}	$I_{\rm C} = -10 \ \mu {\rm A}, I_{\rm E} = 0$	-30			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -1 {\rm mA}, I_{\rm B} = 0$	-20			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = -10 \ \mu A, I_{\rm C} = 0$	-7			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{\rm CB} = -30$ V, $I_{\rm E} = 0$			- 0.1	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = -7 \text{ V}, I_C = 0$			- 0.1	
Forward current transfer ratio *1, 2	h _{FE}	$V_{CE} = -2 V, I_C = -2 A$	120		315	
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_{\rm C} = -3$ A, $I_{\rm B} = -0.1$ A		- 0.7	-1.0	V
Transition frequency	f_{T}	$V_{CE} = -6 \text{ V}, I_C = -50 \text{ mA}$		180		MHz
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = -20 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		30		pF

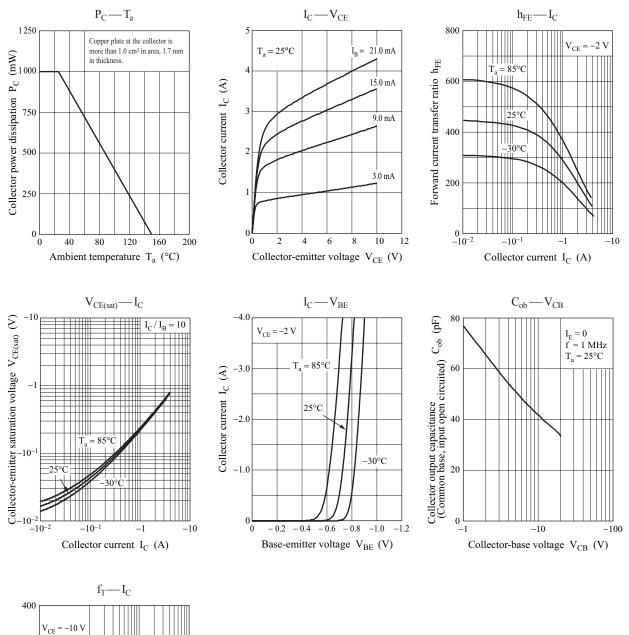
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

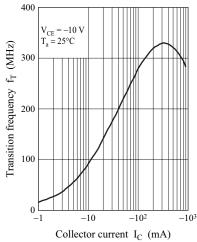
2. *1: Pulse measurement

*2: Rank classification

Code	Q	R	0
Rank	Q	R	No-rank
h _{FE}	120 to 205	180 to 315	120 to 315
Marking Symbol	4FQ	4FR	4F

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





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