DSA4002

Silicon PNP epitaxial planar type

For general amplification Complementary to DSC4002 DSA2002 in NS through hole type package

■ Features

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

■ Packaging

DSA4002×0A Radial type: 5000 pcs / carton

■ 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)	V _{CEO}	-50	V	
Emitter-base voltage (Collector open)	V_{EBO}	-5	V	
Collector current	I_{C}	-500	mA	
Peak collector current	I _{CP}	-1	A	
Collector power dissipation	P _C	300	mW	
Junction temperature	T_{j}	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

■ Package

Code

NS-B2-B

Package dimension clicks here.→

Pin Name

- 1. Emitter
- 2. Collector
- 3. Base
- Marking Symbol: A2

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_{\rm C} = -10 \mu{\rm A}, I_{\rm E} = 0$	-60			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_C = -2 \text{ mA}, I_B = 0$	-50			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = -10 \mu\text{A}, I_C = 0$	-5			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{\rm CB} = -20 \text{ V}, I_{\rm E} = 0$			-0.1	μΑ
	h _{FE1} *2	$V_{CE} = -10 \text{ V}, I_{C} = -150 \text{ mA}$	120		340	
Forward current transfer ratio *1	h _{FE2}	$V_{CE} = -10 \text{ V}, I_{C} = -500 \text{ mA}$	40			_
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_C = -300 \text{ mA}, I_B = -30 \text{ mA}$		-0.2	-0.6	V
Base-emitter saturation voltage *1	V _{BE(sat)}	$I_C = -300 \text{ mA}, I_B = -30 \text{ mA}$		-0.9	-1.5	V
Transition frequency	f_T	$V_{CE} = -10 \text{ V}, I_{C} = -50 \text{ mA}$		130		MHz
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		7.3	15	pF

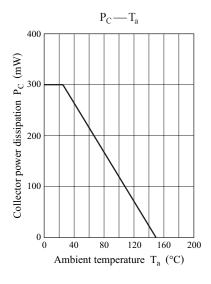
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

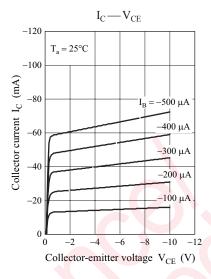
- 2. *1: Pulse measurement
 - *2: Rank classification

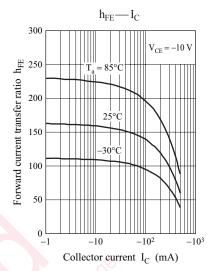
Code	R	S	0	
Rank	R	S	No-rank	
h_{FE1}	120 to 240	170 to 340	120 to 340	
Marking Symbol	A2R	A2S	A2	

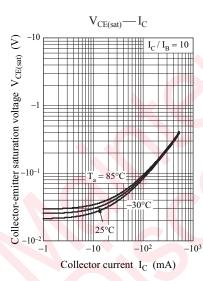
Product of no-rank is not classified and have no marking symbol for rank.

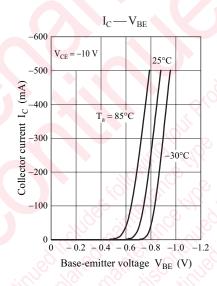
DSA4002 Panasonic

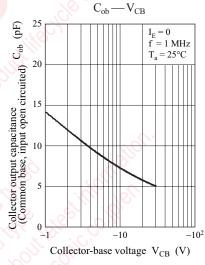


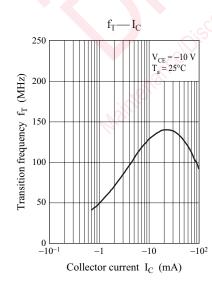












2 Ver. AED

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