DSA4001

Silicon PNP epitaxial planar type

For general amplification Complementary to DSC4001 DSA2001 in NS through hole type package

■ Features

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

Packaging

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}	-7	V
Collector current	$I_{\rm C}$	-100	mA
Peak collector current	I_{CP}	-200	A
Collector power dissipation	$P_{\rm C}$	300	mW
Junction temperature	T_{j}	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

■ Package

• Code

NS-B2-B-B

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

■ Marking Symbol: A1

■ 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}	$I_C = -2 \text{ mA}, I_B = 0$	-50			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_E = -10 \mu\text{A}, I_C = 0$	-7			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{\rm CB} = -20 \text{ V}, I_{\rm E} = 0$			-0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -10 \text{ V}, I_{B} = 0$			-100	μΑ
Forward current transfer ratio *	$h_{ m FE}$	$V_{CE} = -10 \text{ V}, I_{C} = -2 \text{ mA}$	210		460	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = -100 \text{ mA}, I_B = -10 \text{ mA}$		-0.2	-0.5	V
Transition frequency	f_T	$V_{CE} = -10 \text{ V}, I_{C} = -2 \text{ mA}$		150		MHz
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		2		pF

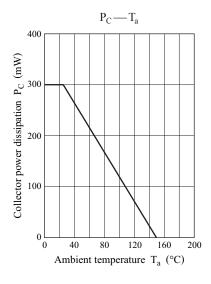
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

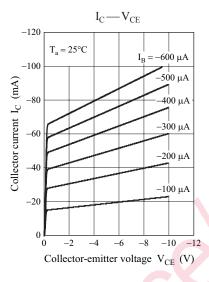
2. *: Rank classification

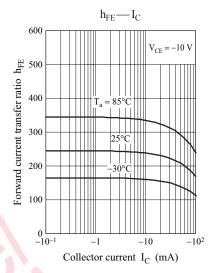
Code	R	S	0	
Rank	R	S	No-rank	
h_{FE}	210 to 340	290 to 460	210 to 460	
Marking Symbol	A1R	A1S	A1	

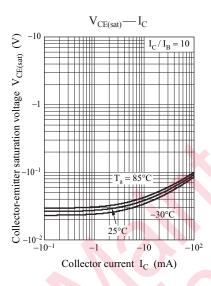
Product of no-rank is not classified and have no marking symbol for rank.

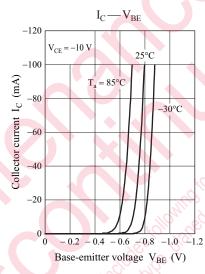
DSA4001 Panasonic

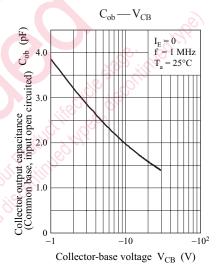


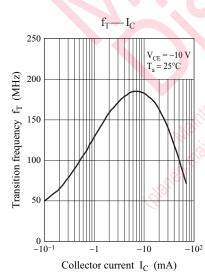








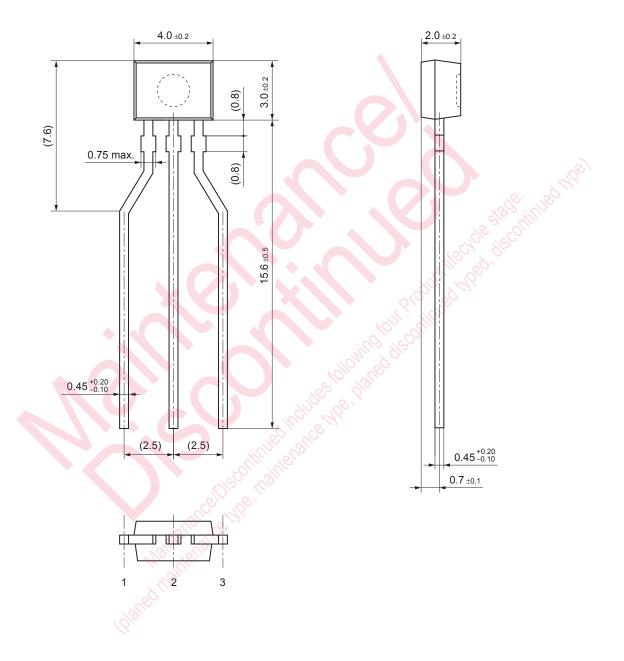




Ver. AED

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NS-B2-B-B Unit: mm



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