DSA8102

Silicon PNP epitaxial planar type

For low frequency output amplification DSA7102 in MT-2 through hole type package

■ Features

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

■ Packaging

DSA8102×0A Radial type: 2000 pcs / carton

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V _{CBO}	-80	V
Collector-emitter voltage (Base open)	V _{CEO}	-80	V
Emitter-base voltage (Collector open)	V_{EBO}	-5	V
Collector current	I_{C}	-1	A
Peak collector current	I_{CP}	-1.5	A
Collector power dissipation *1	P _C	1	W
Junction temperature	T_j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

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

Package Code

- MT-2-A2-B
- Pin Name
 - 1. Emitter 2. Collector
 - 3. Base
- Marking Symbol: 4D

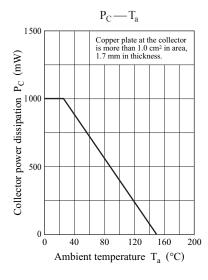
■ Electrical Characteristics $T_a = 25$ °C±3°C

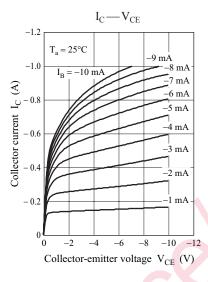
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \mu \text{A}, I_{\rm E} = 0$	-80			V
Collector-emitter voltage (Base open)	V_{CEO}	$I_{\rm C} = -1 \text{ mA}, I_{\rm B} = 0$	-80			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_E = -10 \mu\text{A}, I_C = 0$	-5			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -40 \text{ V}, I_{E} = 0$			-0.1	μΑ
Forward current transfer ratio *1	h _{FE1} *2	$V_{CE} = -2 \text{ V}, I_{C} = -100 \text{ mA}$	120		340	
	h _{FE2}	$V_{CE} = -2 \text{ V}, I_{C} = -500 \text{ mA}$	60			_
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_C = -500 \text{ mA}, I_B = -50 \text{ mA}$		-0.2	-0.3	V
Base-emitter saturation voltage *1	V _{BE(sat)}	$I_C = -500 \text{ mA}, I_B = -50 \text{ mA}$		- 0.95	-1.2	V
Transition frequency	f_T	$V_{CE} = -10 \text{ V}, I_{C} = -50 \text{ mA}$		150		MHz
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		12	30	pF

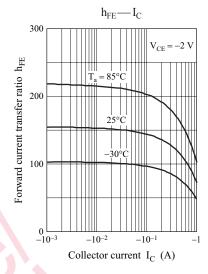
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

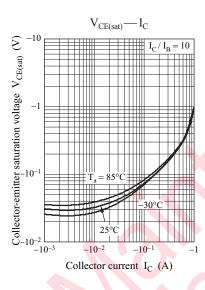
- 2. *1: Pulse measurement
 - *2: Rank classification

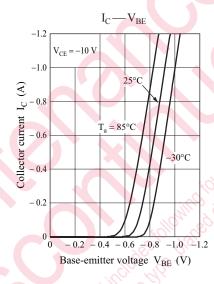
Code	R	S	
Rank	R	S	
h_{FE1}	120 to 240	170 to 340	
Marking Symbol	4DR	4DS	

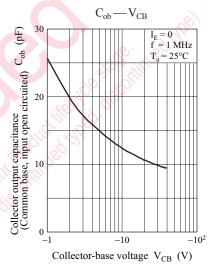


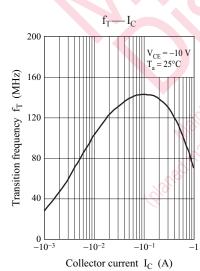






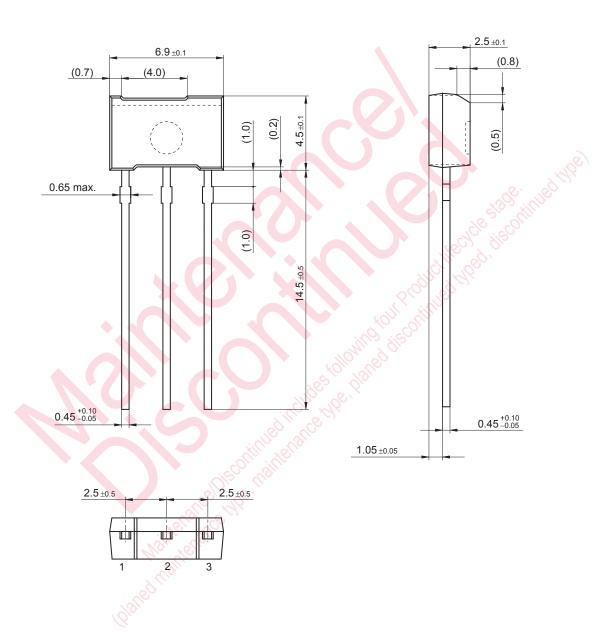






2 Ver. AED

MT-2-A2-B Unit: mm



Ver. AED 3

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