

DMA20402

Silicon PNP epitaxial planar type

For general amplification

■ Features

- High forward current transfer ratio h_{FE} with excellent linearity
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

■ Basic Part Number

Dual DSA2002 (Individual)

■ Packaging

Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

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

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
Total power dissipation	P_T	300	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_C = -10 \mu\text{A}, I_E = 0$	-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}	$V_{CB} = -20 \text{V}, I_E = 0$			-0.1	μA
Forward current transfer ratio *	h_{FE1}	$V_{CE} = -10 \text{V}, I_C = -150 \text{mA}$	120		340	—
	h_{FE2}	$V_{CE} = -10 \text{V}, I_C = -500 \text{mA}$	40			
Collector-emitter saturation voltage *	$V_{CE(sat)}$	$I_C = -300 \text{mA}, I_B = -30 \text{mA}$		-0.2	-0.6	V
Base-emitter saturation voltage *	$V_{BE(sat)}$	$I_C = -300 \text{mA}, I_B = -30 \text{mA}$		-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. *: Pulse measurement

■ Package

• Code

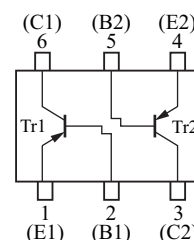
Mini6-G4-B

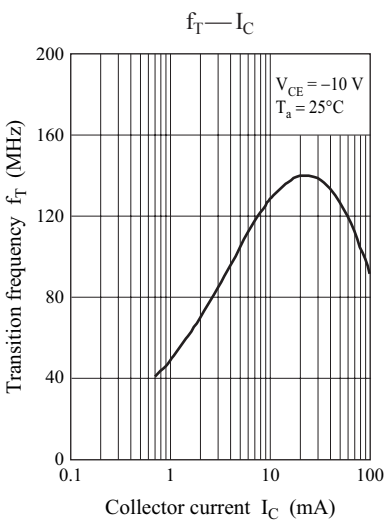
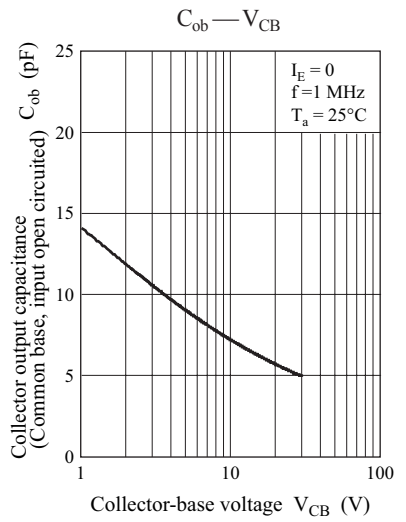
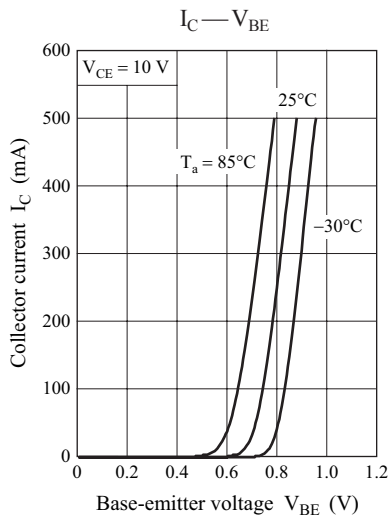
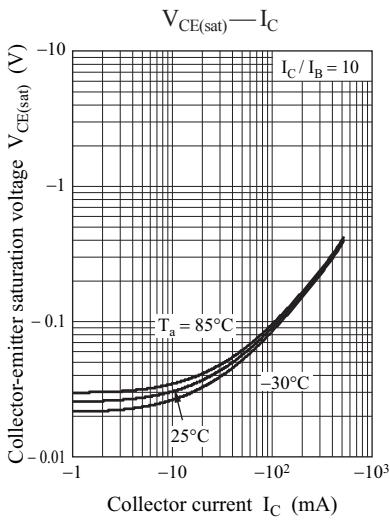
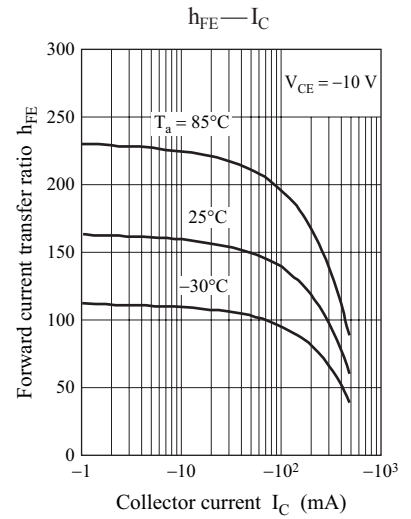
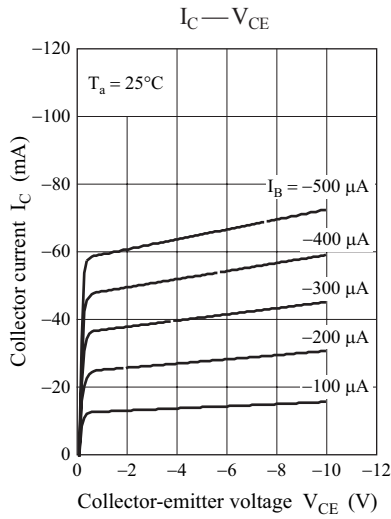
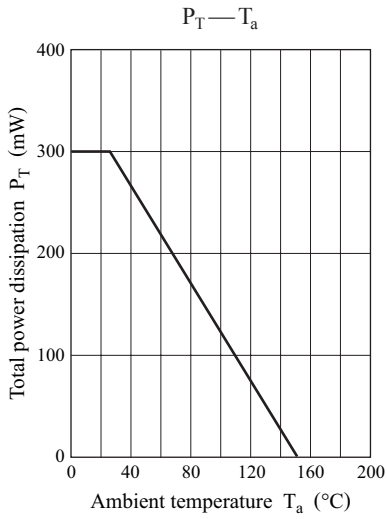
• Pin Name

1: Emitter (Tr1)	4: Emitter (Tr2)
2: Base (Tr1)	5: Base (Tr2)
3: Collector (Tr2)	6: Collector (Tr1)

■ Marking Symbol: B5

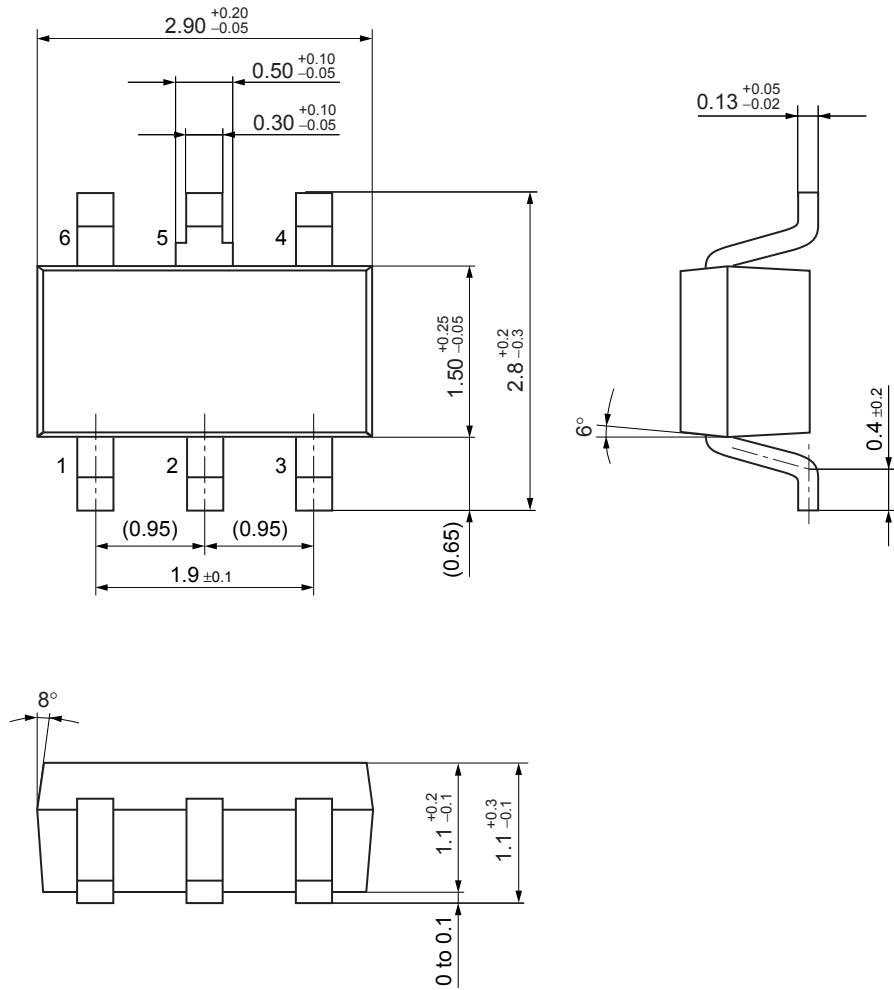
■ Internal Connection





Mini6-G4-B

Unit: mm



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