

# DMA20601

## Silicon PNP epitaxial planar type

For general amplification

### ■ Features

- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

### ■ Basic Part Number

Dual DSA2001 (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)	$V_{\text{CBO}}$	-60	V
Collector-emitter voltage (Base open)	$V_{\text{CEO}}$	-50	V
Emitter-base voltage (Collector open)	$V_{\text{EBO}}$	-7	V
Collector current	$I_{\text{C}}$	-100	mA
Peak collector current	$I_{\text{CP}}$	-200	mA
Total power dissipation	$P_{\text{T}}$	300	mW
Junction temperature	$T_{\text{j}}$	150	$^\circ\text{C}$
Storage temperature	$T_{\text{stg}}$	-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)	$V_{\text{CBO}}$	$I_{\text{C}} = -10 \mu\text{A}, I_{\text{E}} = 0$	-60			V
Collector-emitter voltage (Base open)	$V_{\text{CEO}}$	$I_{\text{C}} = -2 \text{ mA}, I_{\text{B}} = 0$	-50			V
Emitter-base voltage (Collector open)	$V_{\text{EBO}}$	$I_{\text{E}} = -10 \mu\text{A}, I_{\text{C}} = 0$	-7			V
Collector-base cutoff current (Emitter open)	$I_{\text{CBO}}$	$V_{\text{CB}} = -20 \text{ V}, I_{\text{E}} = 0$			-0.1	$\mu\text{A}$
Collector-emitter cutoff current (Base open)	$I_{\text{CEO}}$	$V_{\text{CE}} = -10 \text{ V}, I_{\text{B}} = 0$			-100	$\mu\text{A}$
Forward current transfer ratio	$h_{\text{FE}}$	$V_{\text{CE}} = -10 \text{ V}, I_{\text{C}} = -2 \text{ mA}$	210		460	—
$h_{\text{FE}}$ ratio *	$h_{\text{FE}}$ (Small/Large)	$V_{\text{CE}} = -10 \text{ V}, I_{\text{C}} = -2 \text{ mA}$	0.50	0.99		—
Collector-emitter saturation voltage	$V_{\text{CE(sat)}}$	$I_{\text{C}} = -100 \text{ mA}, I_{\text{B}} = -10 \text{ mA}$		-0.2	-0.5	V
Transition frequency	$f_{\text{T}}$	$V_{\text{CE}} = -10 \text{ V}, I_{\text{C}} = -2 \text{ mA}$		150		MHz
Collector output capacitance (Common base, input open circuited)	$C_{\text{ob}}$	$V_{\text{CB}} = -10 \text{ V}, I_{\text{E}} = 0, f = 1 \text{ MHz}$		2		pF

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

2. \*: Ratio between 2 elements

### ■ Package

#### • Code

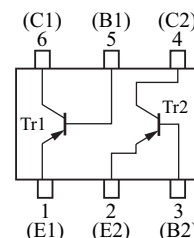
Mini6-G4-B

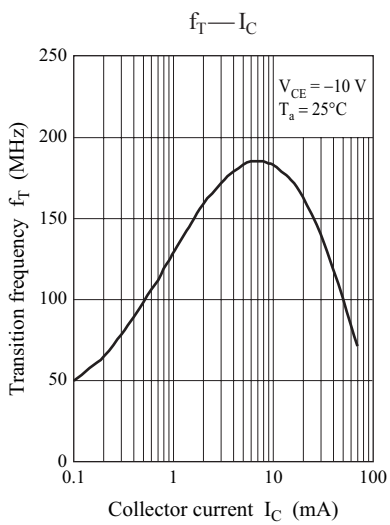
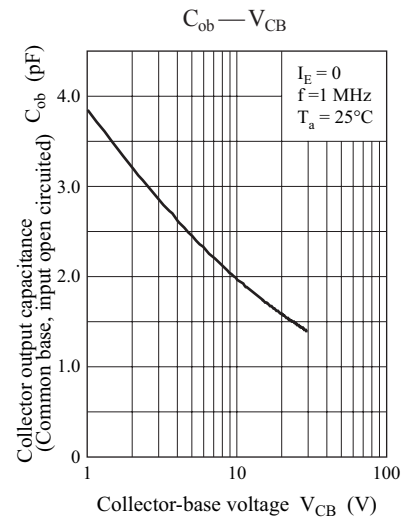
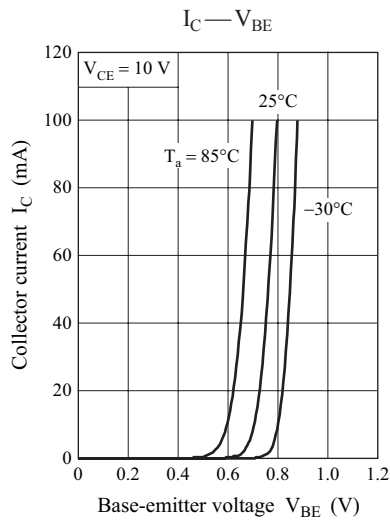
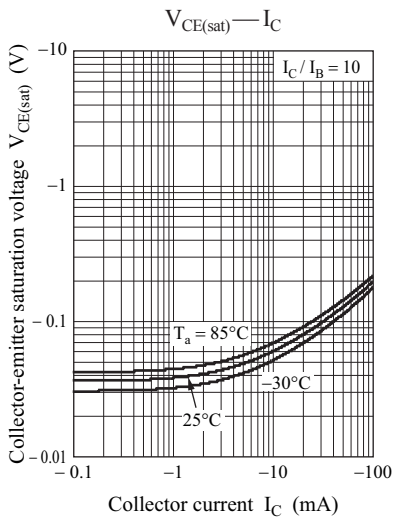
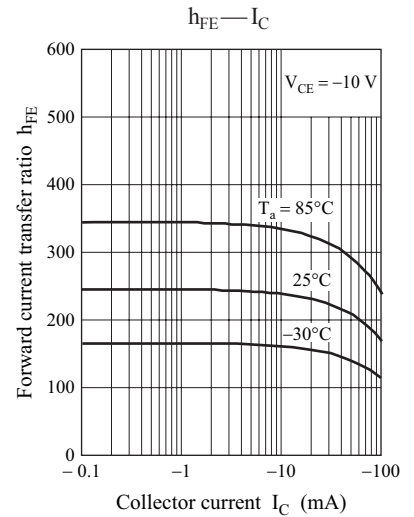
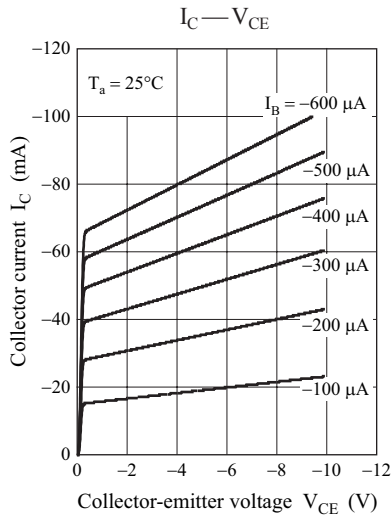
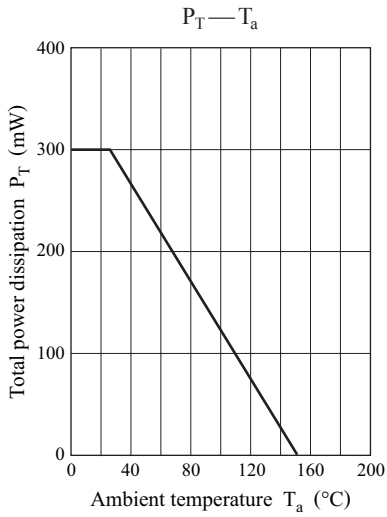
#### • Pin Name

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

### ■ Marking Symbol: B2

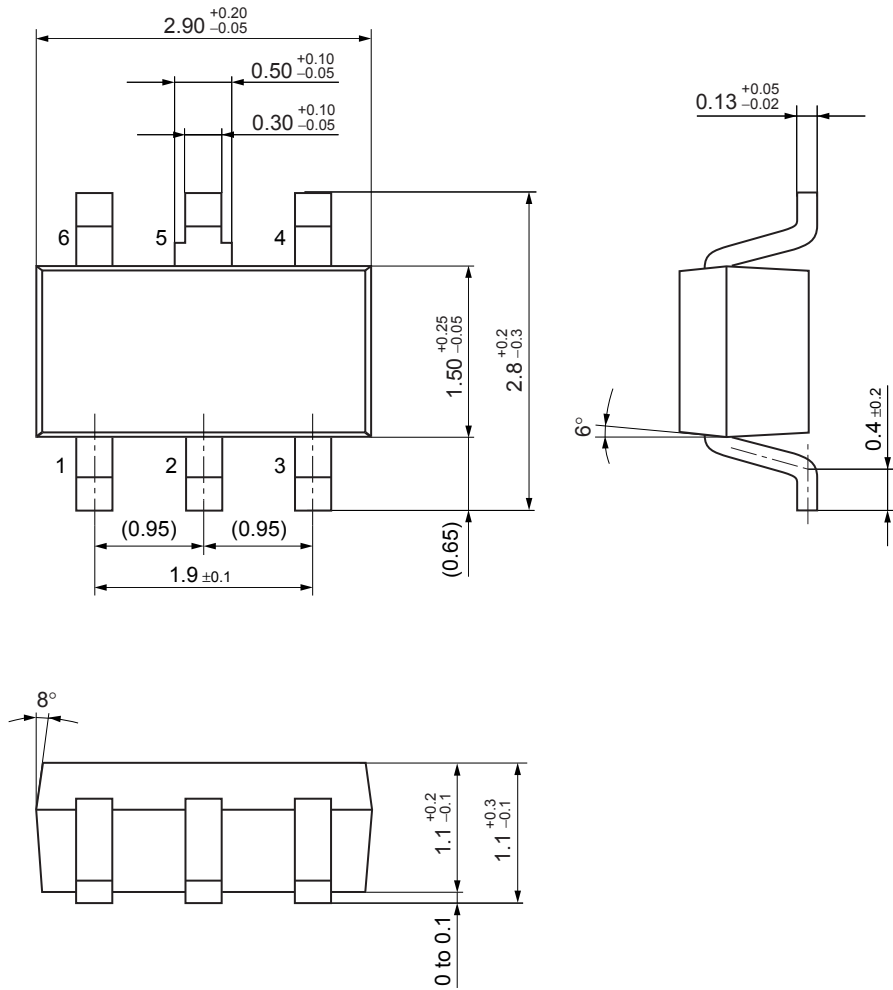
### ■ Internal Connection





Mini6-G4-B

Unit: mm



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