

DMA20201

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 (Common Base)

■ 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}	-7	V
Collector current	I_{C}	-100	mA
Peak collector current	I_{CP}	-200	mA
Total power dissipation	P_{T}	300	mW
Junction temperature	T_{j}	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

■ Package

• Code

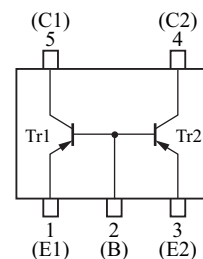
Mini5-G3-B

• Pin Name

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

■ Marking Symbol: A5

■ Internal Connection

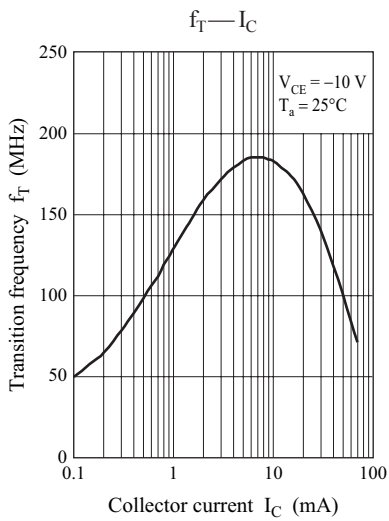
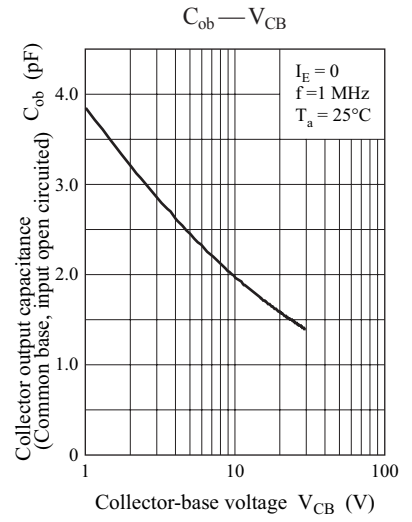
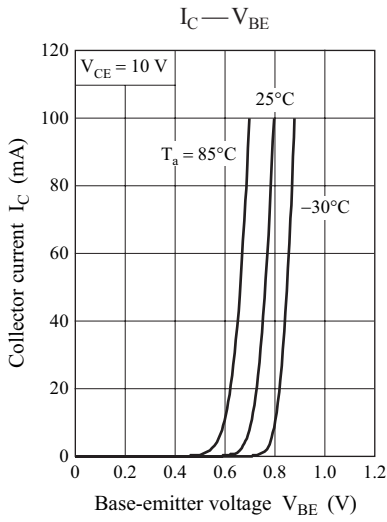
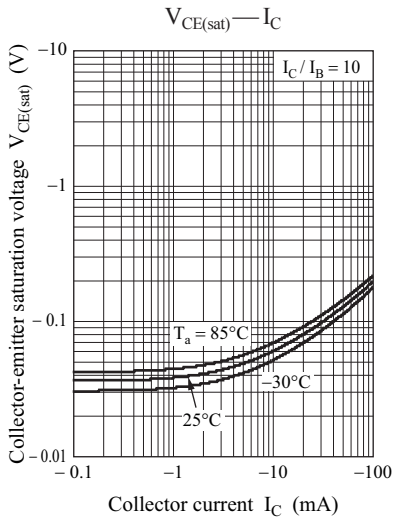
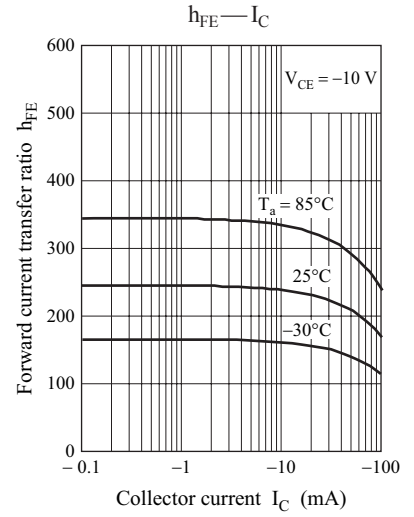
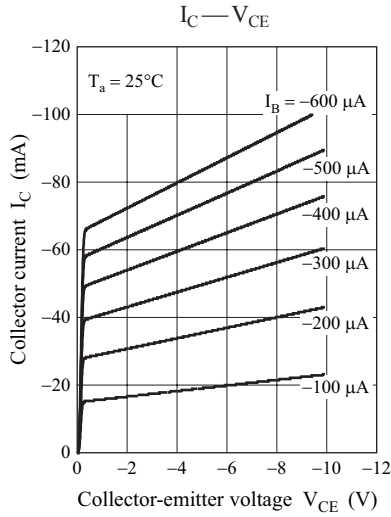
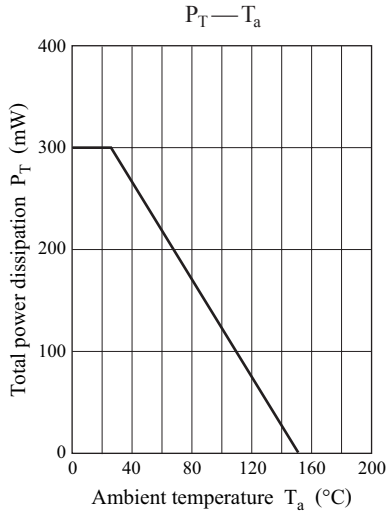


■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_{\text{C}} = -10 \mu\text{A}, I_{\text{E}} = 0$	-60			V
Collector-emitter voltage (Base open)	V_{CEO}	$I_{\text{C}} = -2 \text{mA}, I_{\text{B}} = 0$	-50			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_{\text{E}} = -10 \mu\text{A}, I_{\text{C}} = 0$	-7			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{\text{CB}} = -20 \text{V}, I_{\text{E}} = 0$			-0.1	μA
Collector-emitter cutoff current (Base open)	I_{CEO}	$V_{\text{CE}} = -10 \text{V}, I_{\text{B}} = 0$			-100	μA
Forward current transfer ratio	h_{FE}	$V_{\text{CE}} = -10 \text{V}, I_{\text{C}} = -2 \text{mA}$	210		460	—
h_{FE} ratio *	h_{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_{T}	$V_{\text{CE}} = -10 \text{V}, I_{\text{C}} = -2 \text{mA}$		150		MHz
Collector output capacitance (Common base, input open circuited)	C_{ob}	$V_{\text{CB}} = -10 \text{V}, I_{\text{E}} = 0, f = 1 \text{MHz}$		2		pF

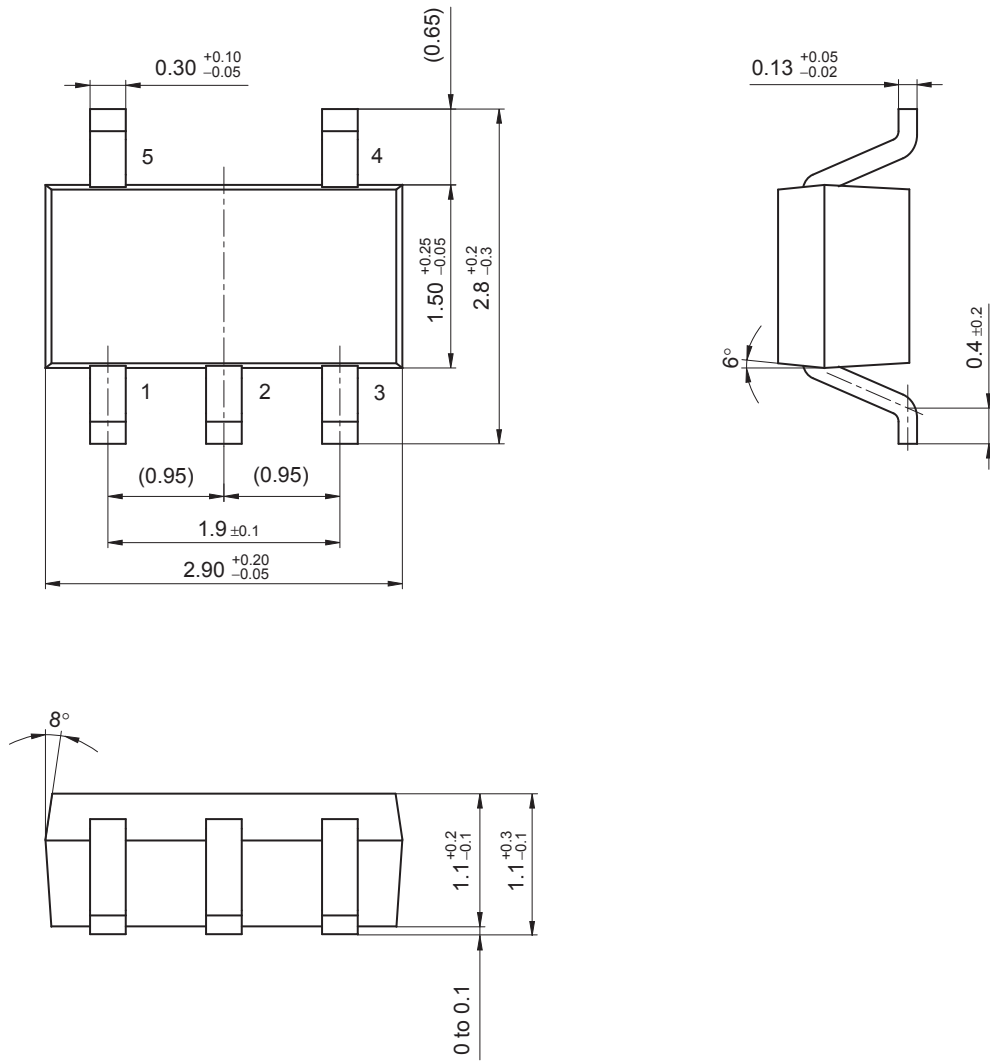
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Ratio between 2 elements



Mini5-G3-B

Unit: mm



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