DMA20101

Silicon PNP epitaxial planar type

For general amplification

■ Features

- \bullet High forward current transfer ratio h_{FE} with excellent linearity
- ullet Low collector-emitter saturation voltage $V_{CE(sat)}$
- Halogen-free / RoHS compliant
 (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

■ Marking Symbol: A0

■ Basic Part Number

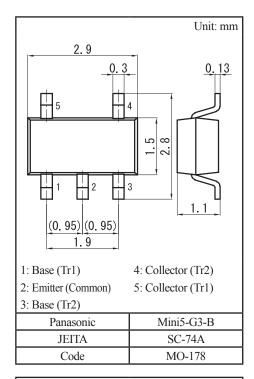
Dual DSA2001 (Common emitter)

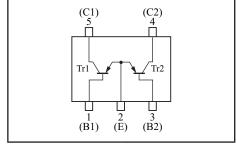
Packaging

 $DMA201010R \quad Embossed \ type \ (Thermo-compression \ sealing): \ 3\,000 \ pcs \ / \ reel \ (standard)$

■ Absolute Maximum Ratings $T_a = 25$ °C

	Parameter	Symbol	Rating	Unit
Tr1 Tr2	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
Overall	Total power dissipation	P _T	300	mW
	Junction temperature	T _j	150	°C
	Operating ambient temperature	T _{opr}	T _{opr} -40 to +85	
	Storage temperature	T _{stg}	-55 to +150	°C





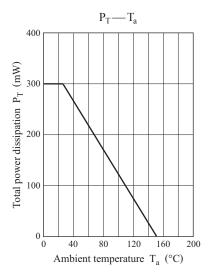
■ Electrical Characteristics $T_a = 25$ °C±3°C

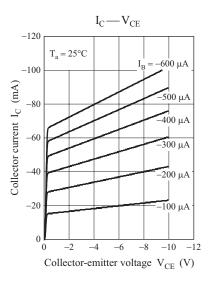
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \mu A, I_{\rm E} = 0$	-60			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_C = -2 \text{ mA}, I_B = 0$	-50			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = -10 \mu\text{A}, I_C = 0$	-7			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = -20 \text{ V}, I_E = 0$			-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_{FE}	$V_{CE} = -10 \text{ V}, I_{C} = -2 \text{ mA}$	210		460	
h _{FE} ratio *1	h _{FE} (Small/Large)	$V_{CE} = -10 \text{ V}, I_{C} = -2 \text{ mA}$	0.50	0.99		_
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

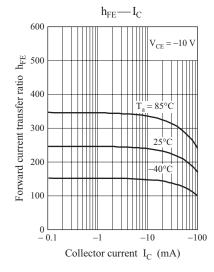
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

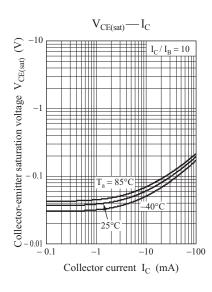
2. *1: Ratio between 2 elements

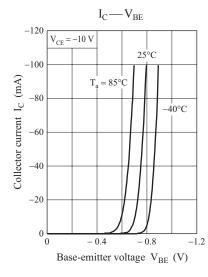
DMA20101 Panasonic

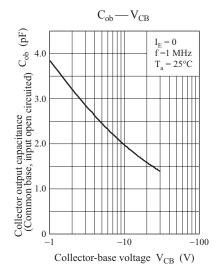


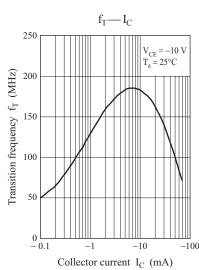








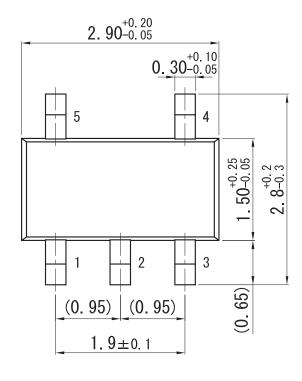


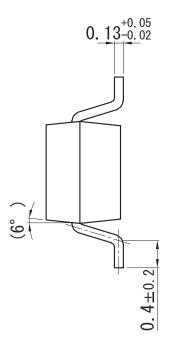


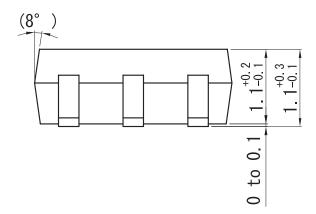
Ver. DED 2

Mini5-G3-B

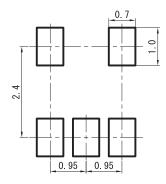
Unit: mm







■ Land Pattern (Reference) (Unit: mm)



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