Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

DMA20601

Silicon PNP epitaxial planar type

For general amplification

■ Features

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

■ Marking Symbol: B2

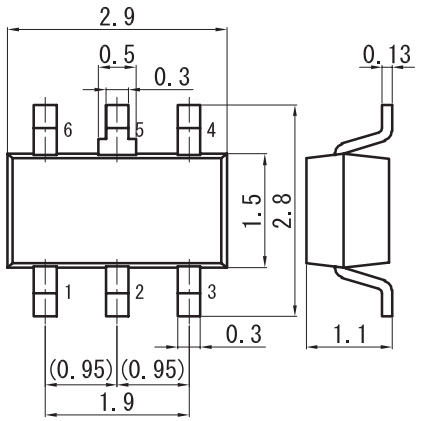
■ Basic Part Number

Dual DSA2001 (Individual)

■ Packaging

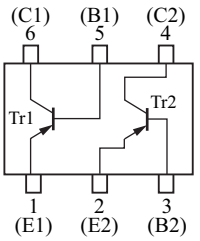
DMA206010R Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

Unit: mm



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

Panasonic	Mini6-G4-B
JEITA	SC-74
Code	SOT-457



■ Absolute Maximum Ratings $T_a = 25°C$

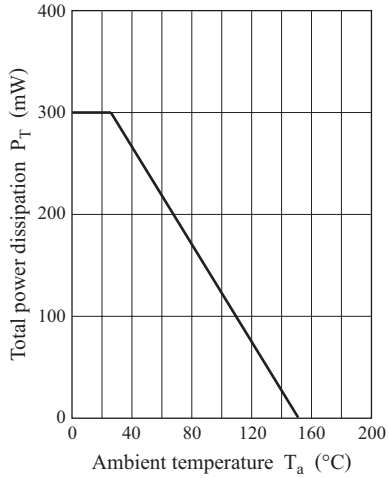
Parameter		Symbol	Rating	Unit
Tr1 Tr2	Collector-base voltage (Emitter open)	V_{CBO}	–60	V
	Collector-emitter voltage (Base open)	V_{CEO}	–50	V
	Emitter-base voltage (Collector open)	V_{EBO}	–7	V
	Collector current	I_C	–100	mA
	Peak collector current	I_{CP}	–200	mA
Overall	Total power dissipation	P_T	300	mW
	Junction temperature	T_j	150	°C
	Operating ambient temperature	T_{opr}	–40 to +85	°C
	Storage temperature	T_{stg}	–55 to +150	°C

■ Electrical Characteristics $T_a = 25°C \pm 3°C$

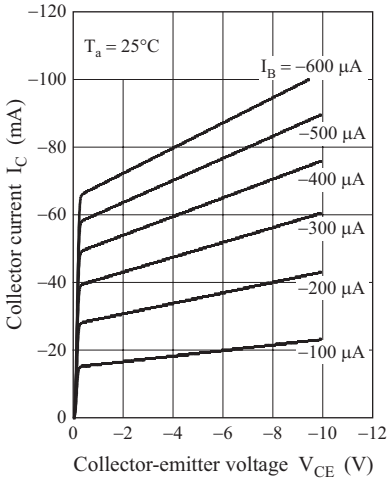
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_C = –10$ μA, $I_E = 0$	–60			V
Collector-emitter voltage (Base open)	V_{CEO}	$I_C = –2$ mA, $I_B = 0$	–50			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = –10$ μA, $I_C = 0$	–7			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = –20$ V, $I_E = 0$			– 0.1	μA
Collector-emitter cutoff current (Base open)	I_{CEO}	$V_{CE} = –10$ V, $I_B = 0$			–100	μA
Forward current transfer ratio	h_{FE}	$V_{CE} = –10$ V, $I_C = –2$ mA	210		460	—
h_{FE} ratio *1	h_{FE} (Small/Large)	$V_{CE} = –10$ V, $I_C = –2$ mA	0.50	0.99		—
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = –100$ mA, $I_B = –10$ mA		– 0.2	– 0.5	V
Transition frequency	f_T	$V_{CE} = –10$ V, $I_C = –2$ mA		150		MHz
Collector output capacitance (Common base, input open circuited)	C_{ob}	$V_{CB} = –10$ V, $I_E = 0$, f = 1 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

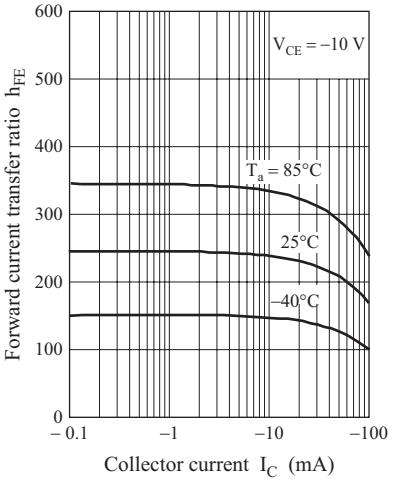
P_T — T_a



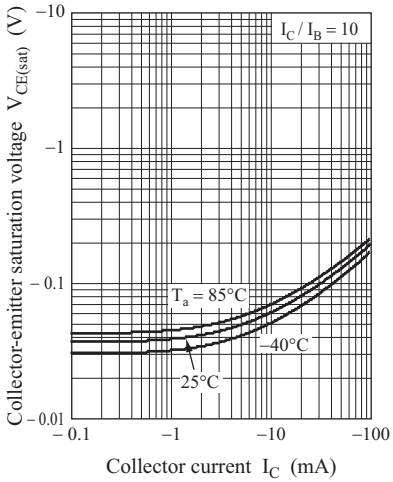
I_C — V_{CE}



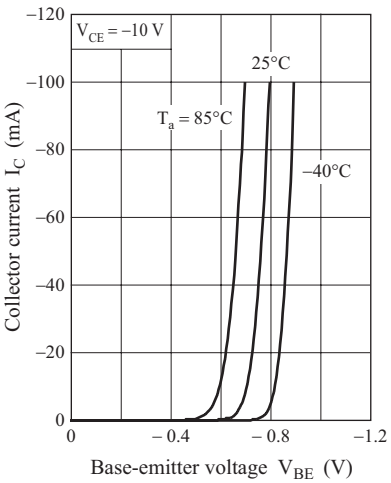
h_{FE} — I_C



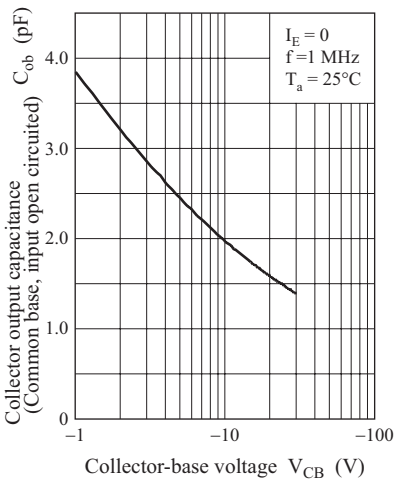
$V_{CE(sat)}$ — I_C



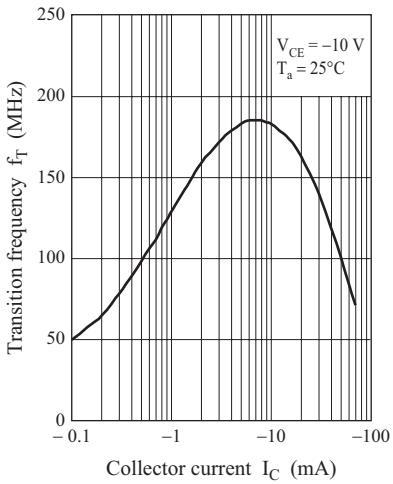
I_C — V_{BE}



C_{ob} — V_{CB}

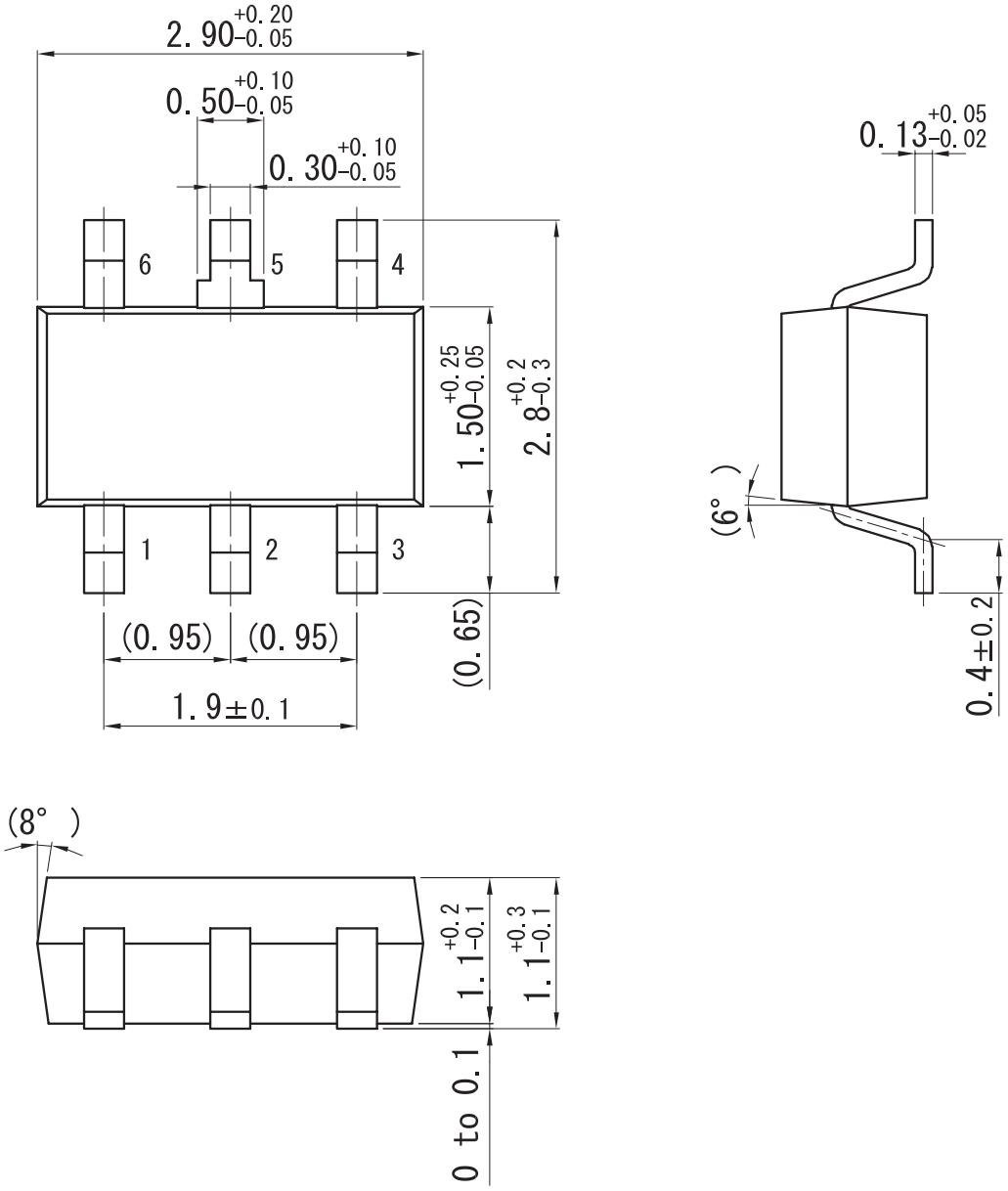


f_T — I_C

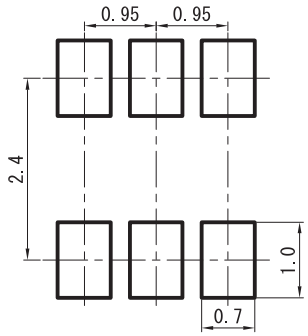


Mini6-G4-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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