

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.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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DMA20201

Silicon PNP epitaxial planar type

For general amplification

■ Features

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

■ Marking Symbol: A5

■ Basic Part Number

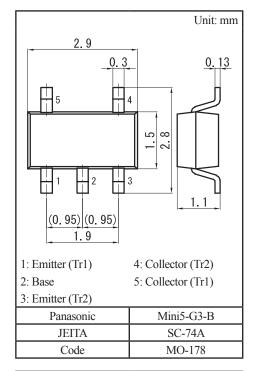
Dual DSA2001 (Common Base)

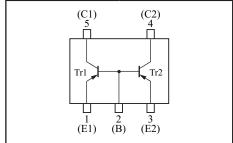
■ Packaging

DMA202010R 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}	-40 to +85	°C	
	Storage temperature	T _{stg}	-55 to +150	°C	





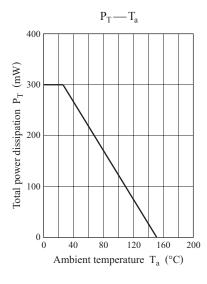
■ Electrical Characteristics $T_a = 25$ °C±3°C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_{\rm C} = -10 \mu \text{A}, I_{\rm E} = 0$	-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}	$I_E = -10 \mu A, I_C = 0$	-7			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{\rm CB} = -20 \text{ V}, I_{\rm E} = 0$			-0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -10 \text{ V}, I_{B} = 0$			-100	μА
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

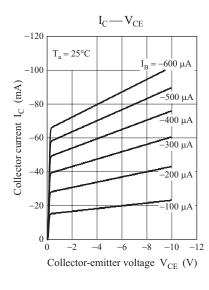
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

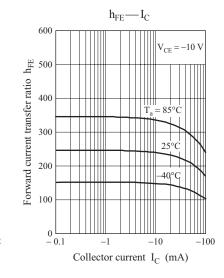
2. *1: Ratio between 2 elements

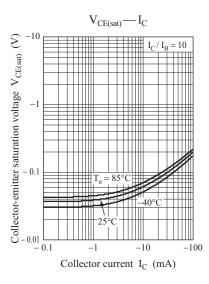
Panasonic

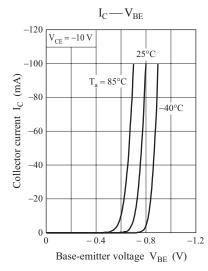


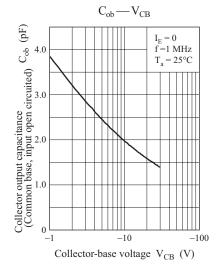
DMA20201

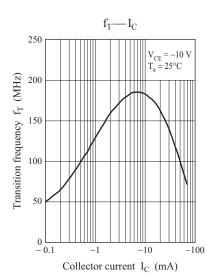








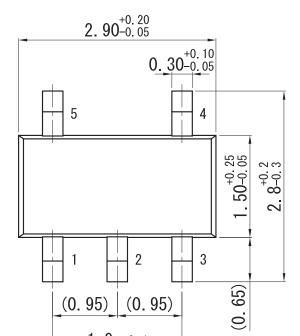


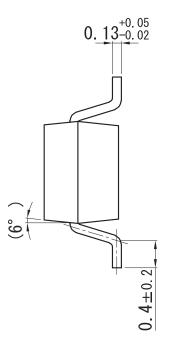


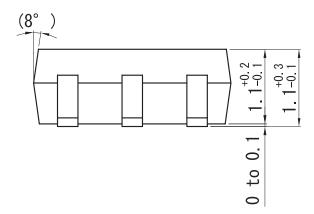
Ver. DED 2

Unit: mm

Mini5-G3-B

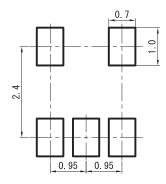






 1.9 ± 0.1

■ Land Pattern (Reference) (Unit: mm)



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