# **DMA26104**

# Silicon PNP epitaxial planar type

For digital circuits

#### ■ Features

- $\bullet$  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: J1

#### ■ Basic Part Number

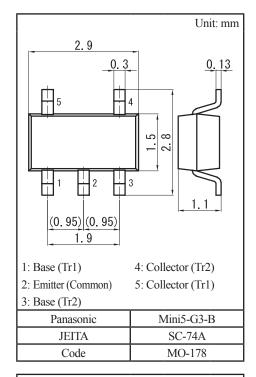
Dual DRA2114Y (Common emitter)

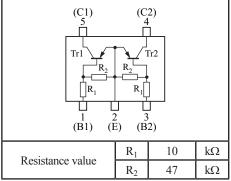
#### Packaging

 $DMA261040R \quad Embossed \ type \ (Thermo-compression \ sealing): \ 3\,000 \ pcs \ / \ reel \ (standard)$ 

## $\blacksquare$ Absolute Maximum Ratings $\rm\,T_a\,{=}\,25^{\circ}C$

	Parameter	Symbol	Rating	Unit
Tr1 Tr2	Collector-base voltage (Emitter open)	V <sub>CBO</sub>	-50	V
	Collector-emitter voltage (Base open)	V <sub>CEO</sub>	-50	V
	Collector current	$I_{C}$	-100	mA
Overall	Total power dissipation	$P_{T}$	300	mW
	Junction temperature	T <sub>j</sub>	150	°C
	Operating ambient temperature	T <sub>opr</sub>	-40 to +85	°C
	Storage temperature	T <sub>stg</sub>	-55 to +150	°C



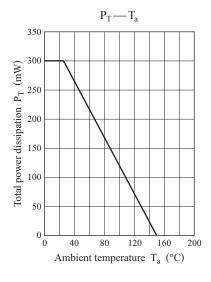


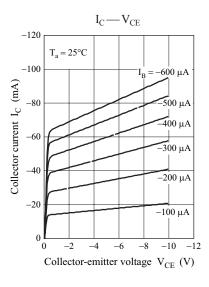
### ■ Electrical Characteristics $T_a = 25$ °C±3°C

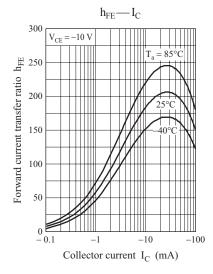
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	$I_{\rm C} = -10 \mu\text{A}, I_{\rm E} = 0$	-50			V
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-50			V
Collector-base cutoff current (Emitter open)	$I_{CBO}$	$V_{CB} = -50 \text{ V}, I_E = 0$			-0.1	μА
Collector-emitter cutoff current (Base open)	I <sub>CEO</sub>	$V_{CE} = -50 \text{ V}, I_{B} = 0$			-0.5	μА
Emitter-base cutoff current (Collector open)	$I_{EBO}$	$V_{EB} = -6 \text{ V}, I_C = 0$			-0.2	mA
Forward current transfer ratio	$h_{\mathrm{FE}}$	$V_{CE} = -10 \text{ V}, I_{C} = -5 \text{ mA}$	80			
h <sub>FE</sub> ratio *1	h <sub>FE</sub> (Small/Large)	$V_{CE} = -10 \text{ V}, I_{C} = -5 \text{ mA}$	0.50	0.99		_
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	$I_C = -10 \text{ mA}, I_B = -0.5 \text{ mA}$			-0.25	V
Input voltage (ON)	V <sub>I(on)</sub>	$V_{CE} = -0.2 \text{ V}, I_{C} = -5 \text{ mA}$	-1.7			V
Input voltage (OFF)	V <sub>I(off)</sub>	$V_{CE} = -5 \text{ V}, I_{C} = -100 \mu\text{A}$			-0.5	V
Input resistance	$R_1$		-30%	10	+30%	kΩ
Resistance ratio	$R_1/R_2$		0.17	0.21	0.25	_

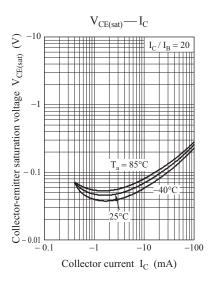
 $Note) \ 1. \ Measuring \ methods \ are \ based \ on \ JAPANESE \ INDUSTRIAL \ STANDARD \ JIS \ C \ 7030 \ measuring \ methods \ for \ transistors.$ 

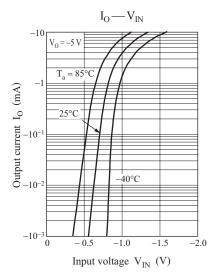
2. \*1: Ratio between 2 elements

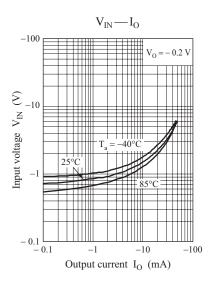








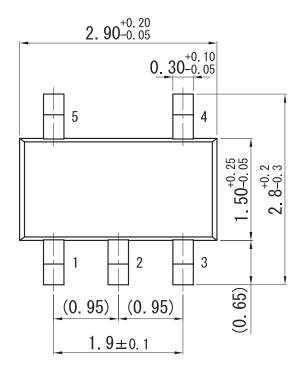


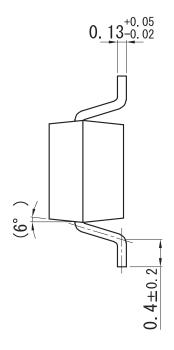


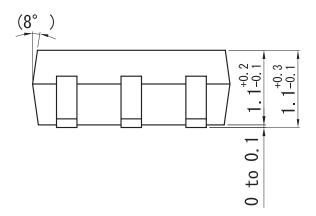
Ver. DED 2

Mini5-G3-B

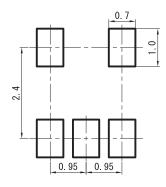
Unit: mm







## ■ Land Pattern (Reference) (Unit: mm)



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