

DMA26109

Silicon PNP epitaxial planar type

For digital circuits

■ Features

- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

■ Basic Part Number

Dual DRA2113Z (Common emitter)

■ 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} | -50 | V |
| Collector-emitter voltage (Base open) | V_{CEO} | -50 | V |
| Collector current | I_C | -100 | 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

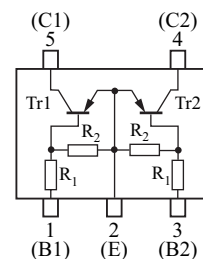
Mini5-G3-B

• Pin Name

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

■ Marking Symbol: P1

■ Internal Connection



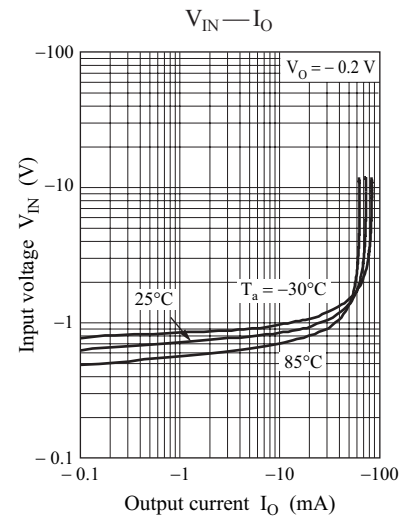
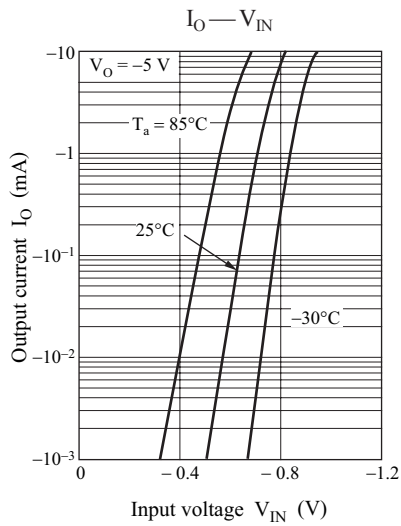
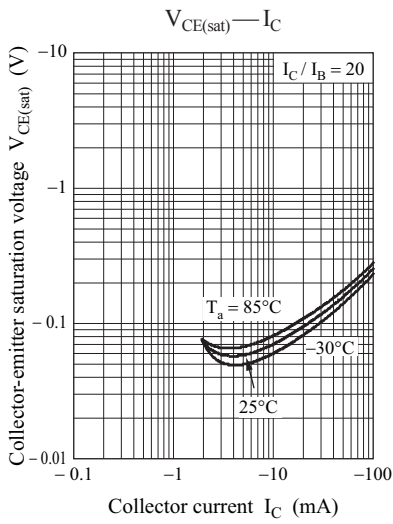
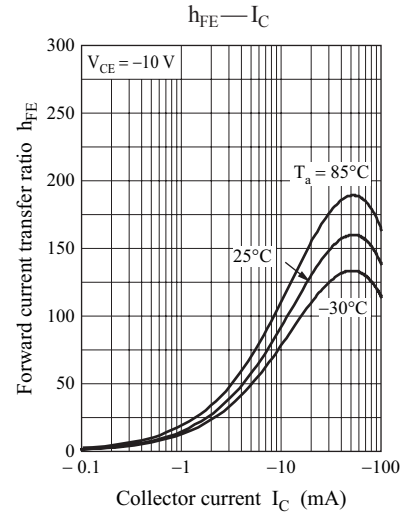
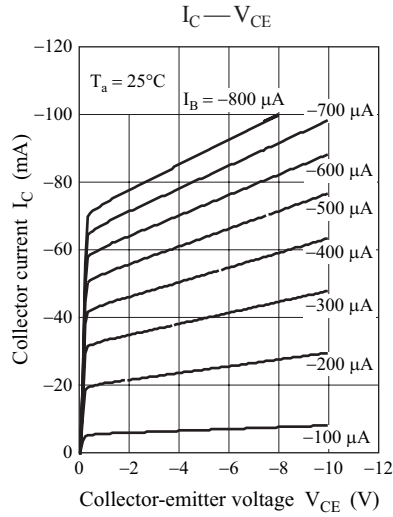
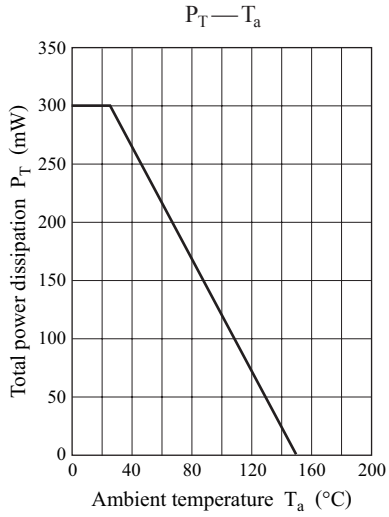
| Resistance value | R_1 | 1 | $k\Omega$ |
|------------------|-------|----|-----------|
| | R_2 | 10 | $k\Omega$ |

■ 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} | $I_C = -10 \mu\text{A}, I_E = 0$ | -50 | | | V |
| Collector-emitter voltage (Base open) | V_{CEO} | $I_C = -2 \text{ mA}, I_B = 0$ | -50 | | | V |
| Collector-base cutoff current (Emitter open) | I_{CBO} | $V_{CB} = -50 \text{ V}, I_E = 0$ | | | -0.1 | μA |
| Collector-emitter cutoff current (Base open) | I_{CEO} | $V_{CE} = -50 \text{ V}, I_B = 0$ | | | -0.5 | μA |
| Emitter-base cutoff current (Collector open) | I_{EBO} | $V_{EB} = -6 \text{ V}, I_C = 0$ | | | -1.5 | mA |
| Forward current transfer ratio | h_{FE} | $V_{CE} = -10 \text{ V}, I_C = -5 \text{ mA}$ | 30 | | | — |
| h_{FE} ratio * | h_{FE} (Small/Large) | $V_{CE} = -10 \text{ V}, I_C = -5 \text{ mA}$ | 0.50 | 0.99 | | — |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C = -10 \text{ mA}, I_B = -0.5 \text{ mA}$ | | | -0.25 | V |
| Input voltage (ON) | $V_{I(on)}$ | $V_{CE} = -0.2 \text{ V}, I_C = -5 \text{ mA}$ | -1.0 | | | V |
| Input voltage (OFF) | $V_{I(off)}$ | $V_{CE} = -5 \text{ V}, I_C = -100 \mu\text{A}$ | | | -0.4 | V |
| Input resistance | R_1 | | -30% | 1 | +30% | $k\Omega$ |
| Resistance ratio | R_1 / R_2 | | 0.08 | 0.1 | 0.12 | — |

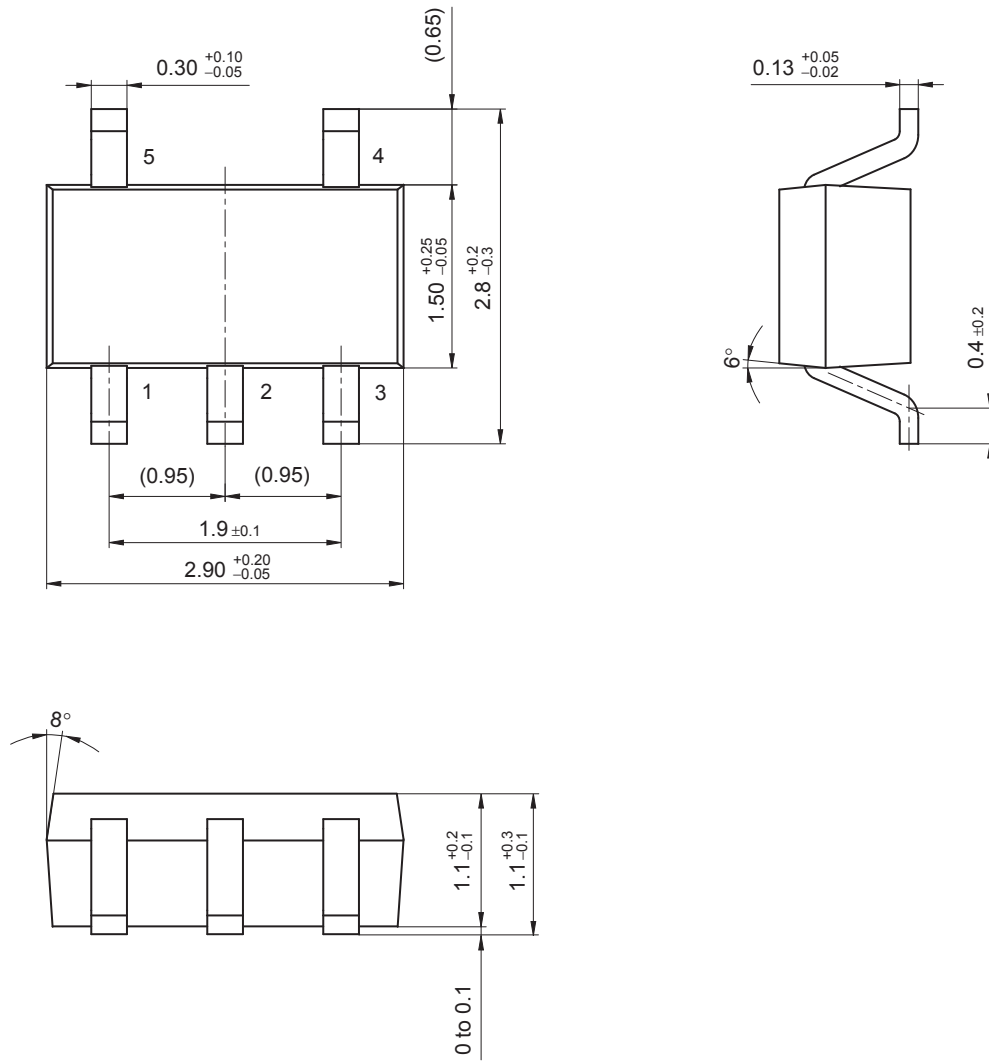
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Ratio between 2 elements



Mini5-G3-B

Unit: mm



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