

DRA3A44E

Silicon PNP epitaxial planar type

For digital circuits

Complementary to DRC3A44E

DRA9A44E in SSSMini3 type package

■ Features

- Low collector-emitter saturation voltage $V_{CE(sat)}$
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

■ Packaging

Embossed type (Thermo-compression sealing): 10000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

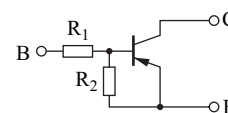
| Parameter | Symbol | Rating | Unit |
|---------------------------------------|-----------|-------------|------------------|
| Collector-base voltage (Emitter open) | V_{CBO} | -50 | V |
| Collector-emitter voltage (Base open) | V_{CEO} | -50 | V |
| Collector current | I_C | -80 | mA |
| Total power dissipation | P_T | 100 | mW |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -55 to +150 | $^\circ\text{C}$ |

■ Package

- Code
SSSMini3-F2-B
- Pin Name
1: Base
2: Emitter
3: Collector

■ Marking Symbol: GY

■ Internal Connection



| Resistance value | R_1 | 47 | $\text{k}\Omega$ |
|------------------|-------|----|------------------|
| | R_2 | 47 | $\text{k}\Omega$ |

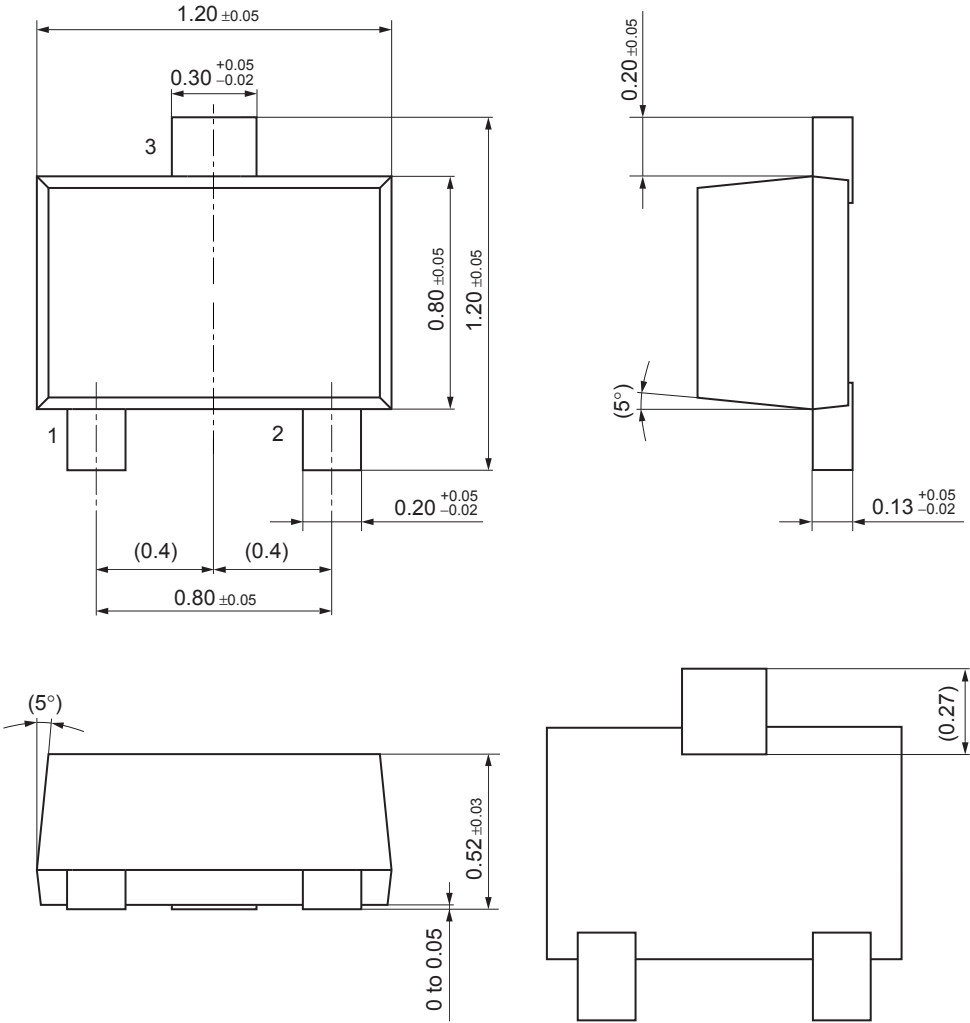
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

| 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} | $V_{EB} = -6 \text{V}, I_C = 0$ | | | -0.1 | mA |
| Forward current transfer ratio | h_{FE} | $V_{CE} = -10 \text{V}, I_C = -5 \text{mA}$ | 80 | | | — |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C = -10 \text{mA}, I_B = -0.5 \text{mA}$ | | | -0.25 | V |
| Input voltage (ON) | $V_{I(on)}$ | $V_{CE} = -0.2 \text{V}, I_C = -5 \text{mA}$ | -3.6 | | | V |
| Input voltage (OFF) | $V_{I(off)}$ | $V_{CE} = -5 \text{V}, I_C = -100 \mu\text{A}$ | | | -0.8 | V |
| Input resistance | R_1 | | -30% | 47 | +30% | $\text{k}\Omega$ |
| Resistance ratio | R_1 / R_2 | | 0.8 | 1.0 | 1.2 | — |

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

SSSMini3-F2-B

Unit: mm



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