UNR91ALG

Silicon PNP epitaxial planar type

For digital circuits

■ Features

- Optimum for high-density mounting and downsizing of the equipment
- Contribute to low power consumption

■ Absolute Maximum Ratings $T_a = 25$ °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 | 125 | mW | |
| Junction temperature | T_j | 125 | °C | |
| Storage temperature | T _{stg} | -55 to +125 | °C | |

■ Package

- Code
- SSMini3-F3
- Pin Name
 - 1: Base
 - 2: Emitter
 - 3: Collector

■ Marking Symbol: KV

■ Internal Connection

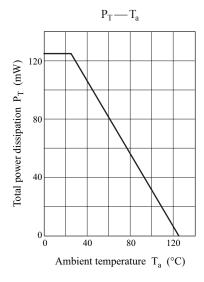
$$R_1$$
 R_2
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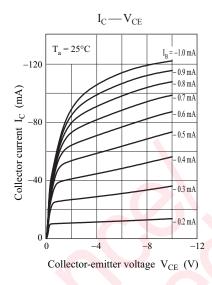
■ Electrical Characteristics $T_a = 25$ °C±3°C

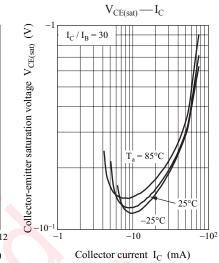
| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|--|----------------------|--|------|-----|--------|------|
| Collector-base voltage (Emitter open) | V_{CBO} | $I_{\rm C} = -10 \mu\text{A}, I_{\rm E} = 0$ | -50 | | | V |
| Collector-emitter voltage (Base open) | V _{CEO} | $I_C = -2 \text{ mA}, I_B = 0$ | -50 | | | V |
| Collector-base cutoff current (Emitter open) | I _{CBO} | $V_{CB} = -50 \text{ V}, I_{E} = 0$ | | | - 0.1 | μΑ |
| Collector-emitter cutoff current (Base open) | I_{CEO} | $V_{CE} = -50 \text{ V}, I_{B} = 0$ | | | - 0.5 | μΑ |
| Emitter-base cutoff current (Collector open) | I_{EBO} | $V_{EB} = -6 \text{ V}, I_C = 0$ | | | -2.0 | mA |
| Forward current transfer ratio | h _{FE} | $V_{CE} = -10 \text{ V}, I_{C} = -5 \text{ mA}$ | 20 | | | _ |
| Collector-emitter saturation voltage | V _{CE(sat)} | $I_C = -10 \text{ mA}, I_B = -0.3 \text{ mA}$ | | | - 0.25 | V |
| Output voltage high-level | V _{OH} | $V_{CC} = -5 \text{ V}, V_{B} = -0.5 \text{ V}, R_{L} = 1 \text{ k}\Omega$ | -4.9 | | | V |
| Output voltage low-level | V _{OL} | $V_{CC} = -5 \text{ V}, V_B = -2.5 \text{ V}, R_L = 1 \text{ k}\Omega$ | | | -0.2 | V |
| Input resistance | R ₁ | | -30% | 4.7 | +30% | kΩ |
| Resistance ratio | R_1/R_2 | | 0.8 | 1.0 | 1.2 | |
| Transition frequency | f_T | $V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 200 \text{ MHz}$ | | 80 | | MHz |

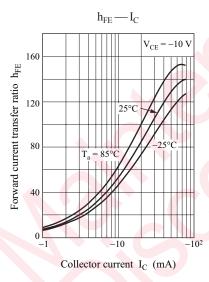
Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

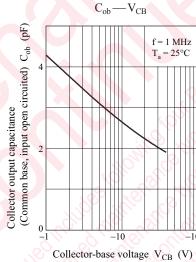
UNR91ALG Panasonic

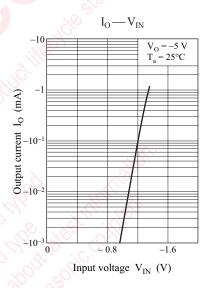


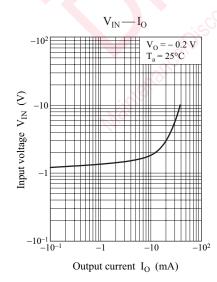






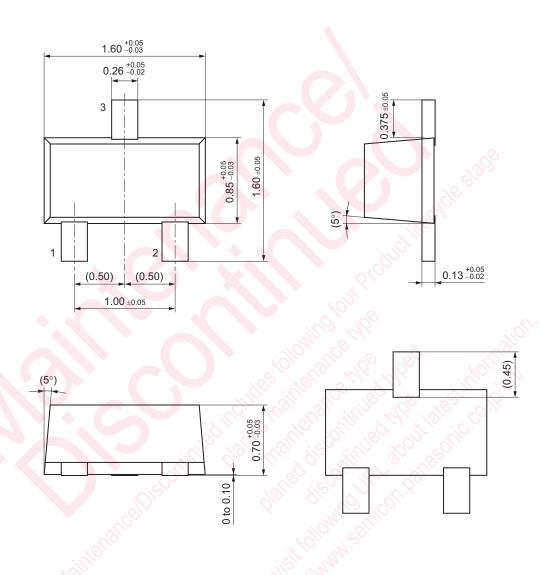






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SSMini3-F3 Unit: mm



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