UP04116G

Silicon PNP epitaxial planar type

For switching/digital circuits

Features

- Two elements incorporated into one package (Transistors with built-in resistor)
- Reduction of the mounting area and assembly cost by one half

Basic Part Number

• UNR2116 × 2

■ 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 | -100 | mA | |
| Total power dissipation | P _T | 125 | mW | |
| Junction temperature | Tj | 125 | °C | |
| Storage temperature | T _{stg} | -55 to +125 | °C | |

Package

Code

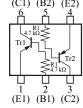
- SSMini6-F2
- Pin Name

| 1: Emitter (Tr1) | 4: Emitter (Tr2) |
|------------------|------------------|
| 2: Base (Tr1) | 5: Base (Tr2) |

3: Collector (Tr2) 6: Collector (Tr1)

Marking Symbol: 6U





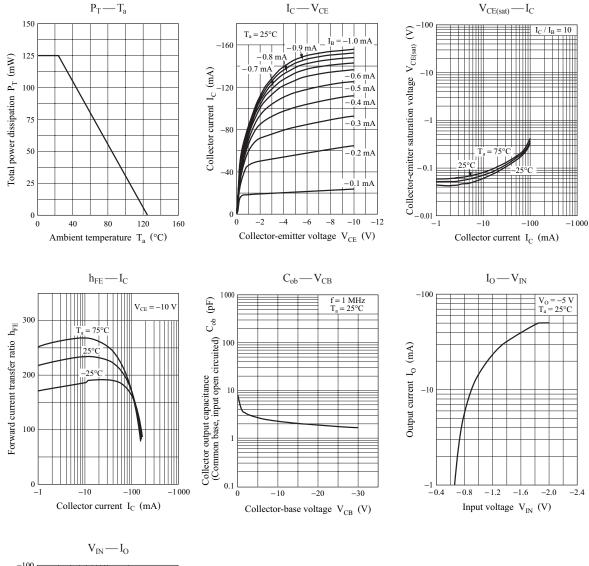
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

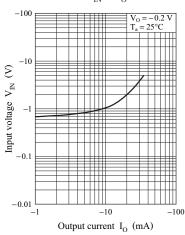
| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|--|---------------------------|--|------|-----|--------|------|
| Collector-base voltage (Emitter open) | V _{CBO} | $I_{\rm C} = -10 \ \mu \text{A}, I_{\rm E} = 0$ | -50 | | | V |
| Collector-emitter voltage (Base open) | V _{CEO} | $I_{\rm C} = -2 {\rm mA}, I_{\rm B} = 0$ | -50 | | | V |
| Collector-base cutoff current (Emitter open) | I _{CBO} | $V_{\rm CB} = -50 \text{ V}, I_{\rm E} = 0$ | | | - 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} | $V_{\rm EB} = -6$ V, $I_{\rm C} = 0$ | | | - 0.01 | mA |
| Forward current transfer ratio | h _{FE} | $V_{CE} = -10 \text{ V}, I_C = -5 \text{ mA}$ | 160 | | 460 | _ |
| Collector-emitter saturation voltage | V _{CE(sat)} | $I_{\rm C} = -10 \text{ mA}, I_{\rm B} = -0.3 \text{ mA}$ | | | -0.25 | V |
| Output voltage high-level | V _{OH} | $V_{\rm CC} = -5 \text{ V}, V_{\rm B} = -0.5 \text{ V}, R_{\rm L} = 1 \text{ k}\Omega$ | -4.9 | | | V |
| Output voltage low-level | V _{OL} | $V_{CC} = -5 V, V_B = -2.5 V, R_L = 1 k\Omega$ | | | - 0.2 | V |
| Input resistance | R ₁ | | -30% | 4.7 | +30% | kΩ |
| Transition frequency | \mathbf{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.

UP04116G

Panasonic

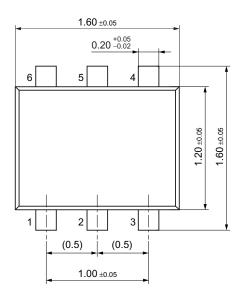


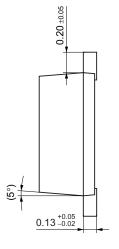


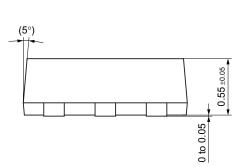
Panasonic

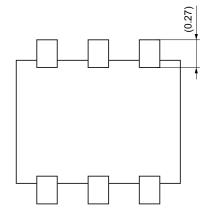
SSMini6-F2

Unit: mm









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