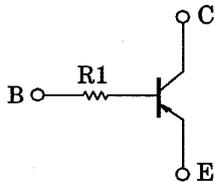


RN2510,RN2511

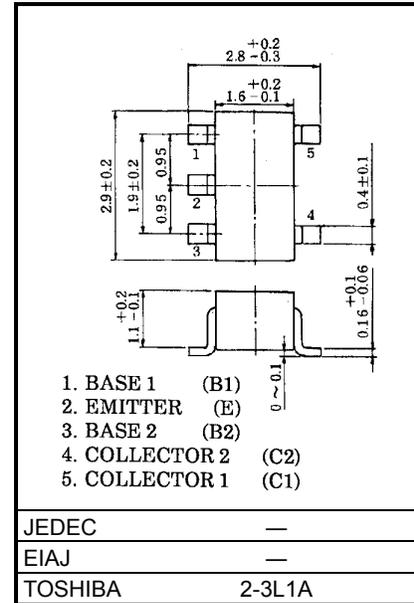
Switching, Inverter Circuit, Interface Circuit
And Driver Circuit Applications

- Including twodevices in SMV (super mini type with 5 leads)
- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process
- Complementary to RN1510, RN1511

Equivalent Circuit



Unit: mm



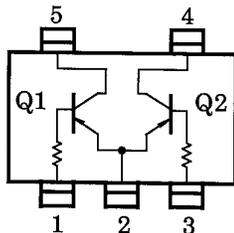
Weight: 0.014g

Maximum Ratings (Ta = 25°C)

| Characteristic | Symbol | Rating | Unit |
|-----------------------------|-----------|---------|------|
| Collector-base voltage | V_{CBO} | -50 | V |
| Collector-emitter voltage | V_{CEO} | -50 | V |
| Emitter-base voltage | V_{EBO} | -5 | V |
| Collector current | I_C | -100 | mA |
| Collector power dissipation | P_C^* | 300 | mW |
| Junction temperature | T_j | 150 | °C |
| Storage temperature range | T_{stg} | -55~150 | °C |

* : Total rating

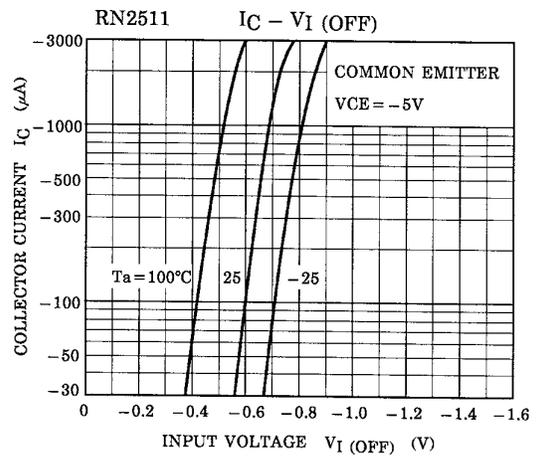
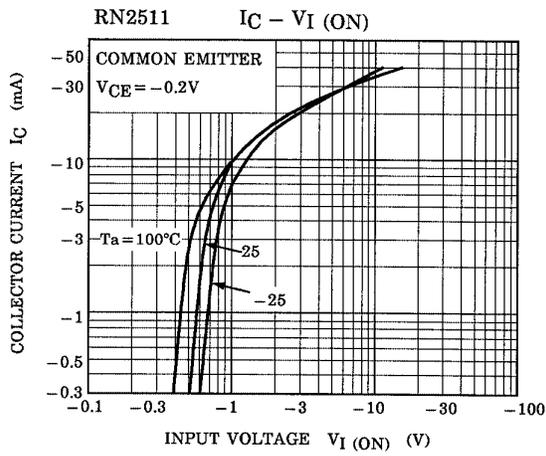
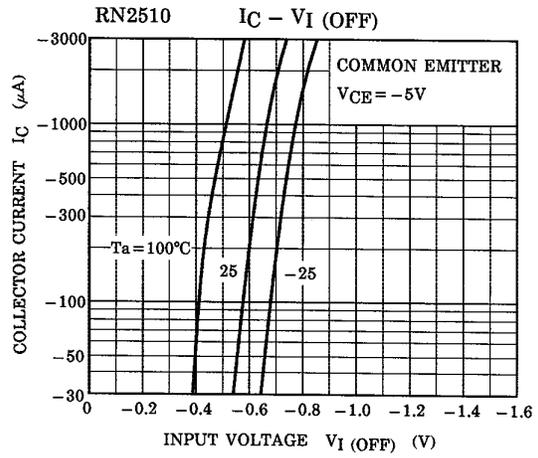
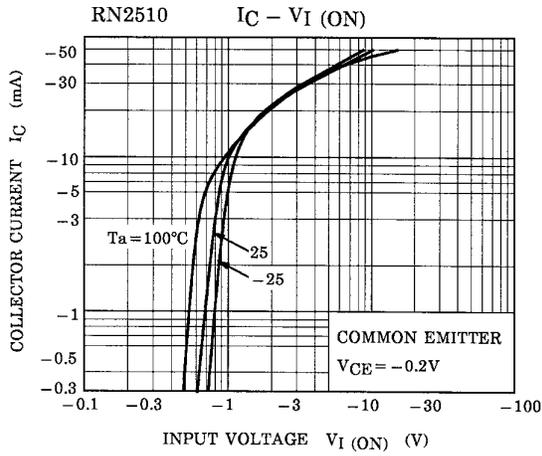
Equivalent Circuit (Top View)



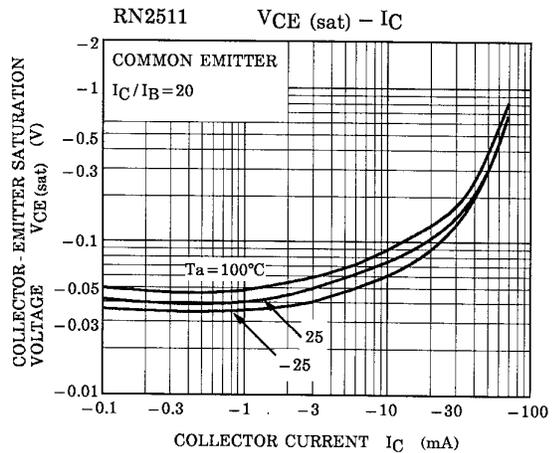
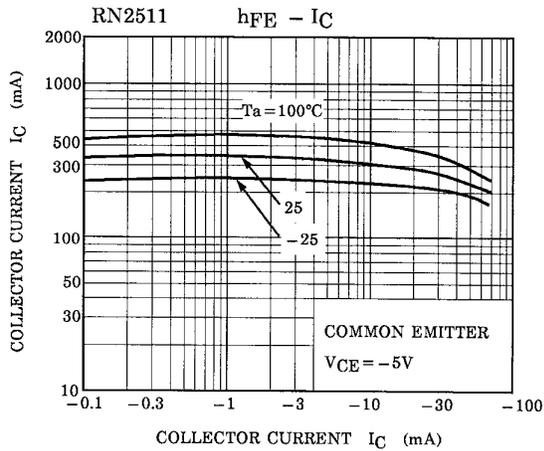
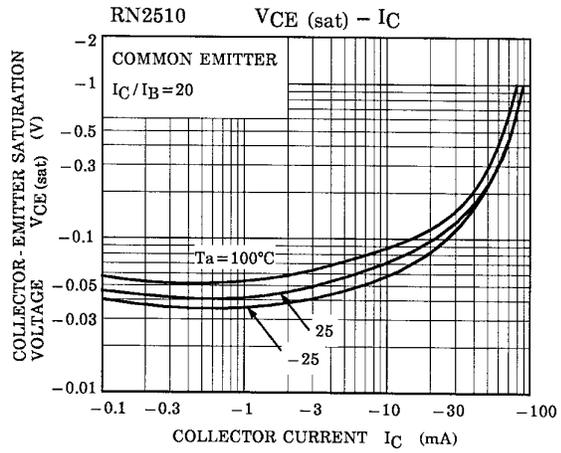
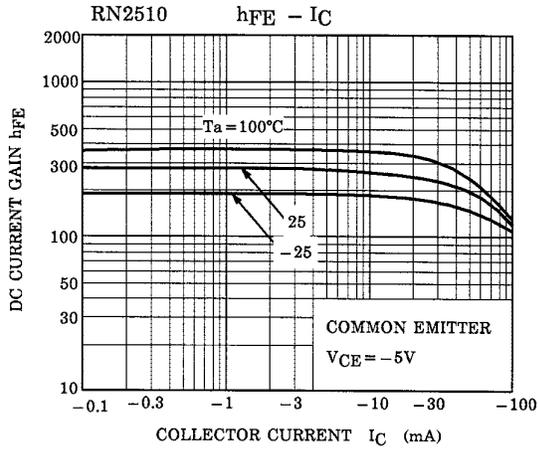
Electrical Characteristics (Ta = 25°C)

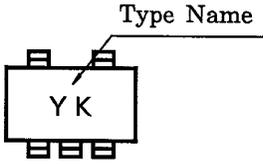
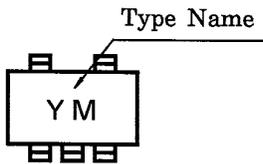
| Characteristic | Symbol | Test Circuit | Test Condition | Min | Typ. | Max | Unit |
|--------------------------------------|---------------|--------------|------------------------------------|------|------|------|------|
| Collector cut-off current | I_{CBO} | — | $V_{CB} = -50V, I_E = 0$ | — | — | -100 | nA |
| Emitter cut-off current | I_{EBO} | — | $V_{EB} = -5V, I_C = 0$ | — | — | -100 | nA |
| DC current gain | h_{FE} | — | $V_{CE} = -5V, I_C = -1mA$ | 120 | — | 400 | — |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | — | $I_C = -5mA, I_B = -0.25mA$ | — | -0.1 | -0.3 | V |
| Translation frequency | f_T | — | $V_{CE} = -10V, I_C = -5mA$ | — | 250 | — | MHz |
| Collector output capacitance | C_{ob} | — | $V_{CB} = -10V, I_E = 0, f = 1MHz$ | — | 3 | 6 | pF |
| Input resistor | RN2510 | R1 | — | 3.29 | 4.7 | 6.11 | kΩ |
| | RN2511 | | | 7 | 10 | 13 | |

(Q1, Q2 Common)



(Q1, Q2 Common)



| Type Name | Marking |
|-----------|---|
| RN2510 |  <p>The diagram shows a rectangular component with two pins on the top and three pins on the bottom. The letters 'Y K' are printed in the center. A line points from the text 'Type Name' to the 'Y' in the marking.</p> |
| RN2511 |  <p>The diagram shows a rectangular component with two pins on the top and three pins on the bottom. The letters 'Y M' are printed in the center. A line points from the text 'Type Name' to the 'Y' in the marking.</p> |

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000707EAA

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