

RT3N22M

Compound Transistor With Resistor
For Switching Application
Silicon Epitaxial Type

DESCRIPTION

RT3N22M is a compound transistor built with two RT1N241 in SC-88 package.

FEATURE

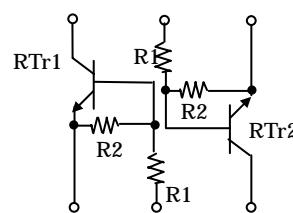
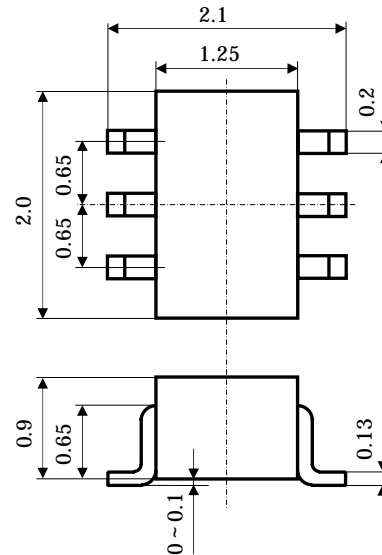
- Silicon epitaxial type
- Each transistor elements are independent.
- Mini package for easy mounting

APPLICATION

- Inverted circuit, switching circuit,
- interface circuit, driver circuit

OUTLINE DRAWING

Unit: mm



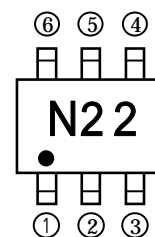
TERMINAL CONNECTOR
: EMITTER1
: BASE1
: COLLECTOR2
: EMITTER2
: BASE2
: COLLECTOR1

JEITA: SC-88

MAXIMUM RATING (Ta=25)

| SYMBOL | PARAMETER | RATING | UNIT |
|--------|---------------------------------------|-------------|------|
| VCBO | Collector to Base voltage | 50 | V |
| VEBO | Emitter to Base voltage | 10 | V |
| VCEO | Collector to Emitter voltage | 50 | V |
| IC | Collector current | 100 | mA |
| ICM | Peak Collector current | 200 | mA |
| PC | Collector dissipation (Total, Ta=25) | 150 | mW |
| Tj | Junction temperature | + 150 | |
| Tstg | Storage temperature | -55 ~ + 150 | |

MARKING



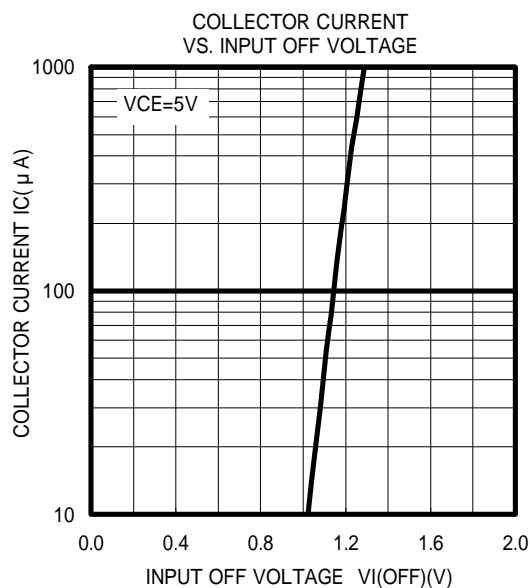
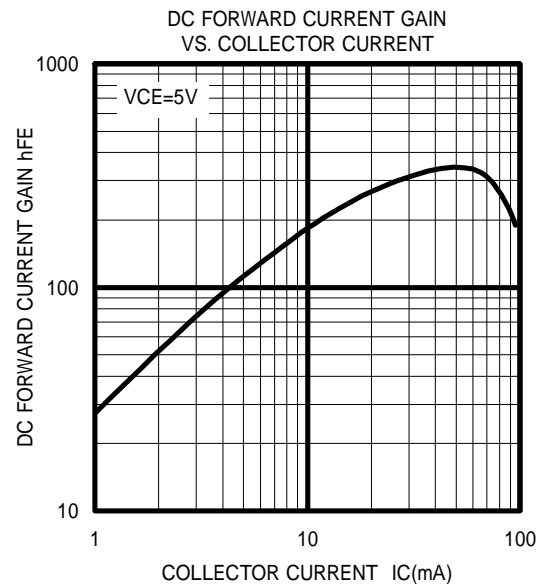
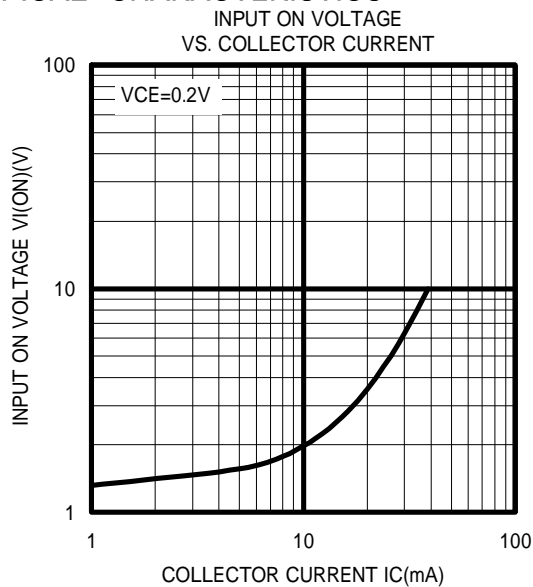
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ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| Symbol | Parameter | Test conditions | Limits | | | Unit |
|--------------------------------|---|---|--------|-----|-----|------|
| | | | Min | Typ | Max | |
| V _{(BR)CEO} | Collector to Emitter break down voltage | I _C =100 μA, R _{BE} = | 50 | - | - | V |
| I _{CBO} | Collector cut off current | V _{CB} =50V, I _E =0 | - | - | 0.1 | μA |
| h _{FE} | DC forward current gain | V _{CE} =5V, I _C =5mA | 50 | - | - | - |
| V _{CE(sat)} | Collector to Emitter saturation voltage | I _C =10mA, I _B =0.5mA | - | 0.1 | 0.3 | V |
| V _{I(ON)} | Input on voltage | V _{CE} =0.2V, I _C =5mA | - | 1.8 | 3.0 | V |
| V _{I(OFF)} | Input off voltage | V _{CE} =5V, I _C =100 μA | 0.8 | 1.1 | - | V |
| R ₁ | Input resistor | - | 16 | 22 | 28 | k |
| R ₂ /R ₁ | Resistor ratio | - | 0.9 | 1.0 | 1.1 | - |
| f _T | Gain band width product | V _{CE} =6V, I _E =-10mA | - | 200 | - | MHz |

TYPICAL CHARACTERISTICS





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