PRELIMINARY

Notice: This is not a final specification Some parametric are subject to change.

RTBN226AP1

TRANSISTOR WITH RESISTOR FOR SWITHING APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

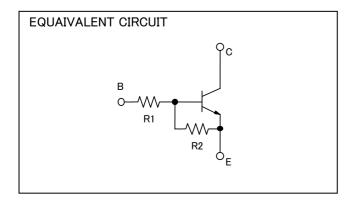
RTBN226AP1 is a one chip transistor with built-in bias transistor.

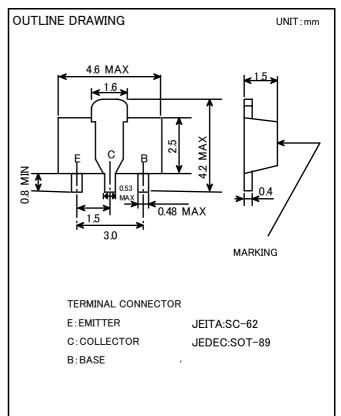
FEATURE

- *Built-in bias resistor (R1=0.22k Ω ,R2=2.2k Ω)
- •High collector current (IC=1A)
- ·Small package for easy mounting.

APPLICATION

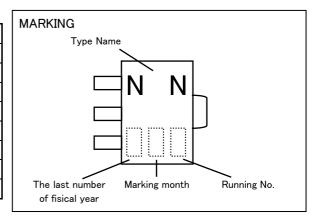
Switching.





MAXIMUM RATING (Ta=25°C)

| SYMBOL | PARAMETER | RATING | UNIT |
|------------------|--------------------------------|-------------------|------|
| V_{CBO} | Collector to Base voltage | 80 | ٧ |
| V_{EBO} | Emitter to Base voltage | 10 | ٧ |
| V _{CEO} | Collector to Emitter voltage | 60 | ٧ |
| I c | Collector current | 1 | Α |
| I _{CM} | Peak collector current | 2 | Α |
| P _{CM} | Collector dissipation(Ta=25°C) | 500 | mW |
| T _j | Junction temperature | +150 | °C |
| T_{stg} | Storage temperature | -55 ~ +150 | °C |



ELECTRICAL CHARACTERISTICS (Ta=25°C)

| SYMBOL | PARAMETER | TEST CONDITIONS | LIMITS | | | LINIT |
|-----------|---------------------------|---|--------|------|-------|-------|
| | | TEST CONDITIONS | MIN | TYP | MAX | UNIT |
| I_{CBO} | Collector cut off current | V_{CE} =60V, I_{E} =0 | _ | _ | 0.1 | μΑ |
| VI(on) | Input on voltage | $V_{CE} = 0.5V, I_{C} = 0.8A$ | _ | _ | 5.0 | ٧ |
| VI(off) | Input off voltage | V_{CE} =5V, I_{C} =100 μ A | 0.3 | _ | _ | ٧ |
| hFE1 | DC forward current gain1 | V_{CE} =2V, I_{C} =0.1A | 100 | _ | _ | _ |
| hFE2 | DC forward current gain2 | V_{CE} =2V, I_{C} =0.5A | 300 | _ | _ | _ |
| hFE3 | DC forward current gain3 | V _{CE} =2V, I _C =1A | 200 | _ | _ | _ |
| R1 | Input resistor | _ | 0.154 | 0.22 | 0.286 | kΩ |
| R2 | Emitter-base resistor | _ | 1.54 | 2.2 | 2.86 | kΩ |



6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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