

DESCRIPTION

2SB1035 is a resin sealed silicon PNP epitaxial type transistor. It is designed for low frequency power amplify application.

Complementary with 2SD1447.

FEATURE

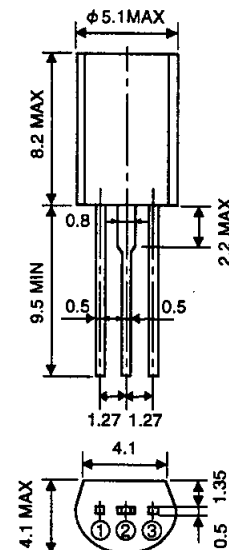
- High collector current $I_{CM} = -1.5A$
- High gain band width product $f_T = 100MHz$ typ
- High collector dissipation $P_C = 900mW$
- Excellent linearity of DC forward current gain

APPLICATION

Radio, tape recorder, small type stereo, etc. Low frequency power amplify circuit with 2 to 3.5W output.

OUTLINE DRAWING

Unit:mm



TERMINAL CONNECTOR

- ① : EMITTER
 - ② : COLLECTOR
 - ③ : BASE
- EIAJ : —
JEDEC : —

Note)

The dimension without tolerance represent central value.

MAXIMUM RATINGS (Ta=25°C)

| Symbol | Parameter | Ratings | Unit |
|------------------|--------------------------------|-------------|------|
| V _{CB0} | Collector to Base voltage | -30 | V |
| V _{EB0} | Emitter to Base voltage | -4 | V |
| V _{CE0} | Collector to Emitter voltage | -25 | V |
| I _{CM} | Peak collector current | -1.5 | A |
| I _C | Collector current | -1 | A |
| P _C | Collector dissipation(Ta=25°C) | 900 | mW |
| T _J | Junction temperature | +150 | °C |
| T _{stg} | Storage temperature | -55 to +150 | °C |

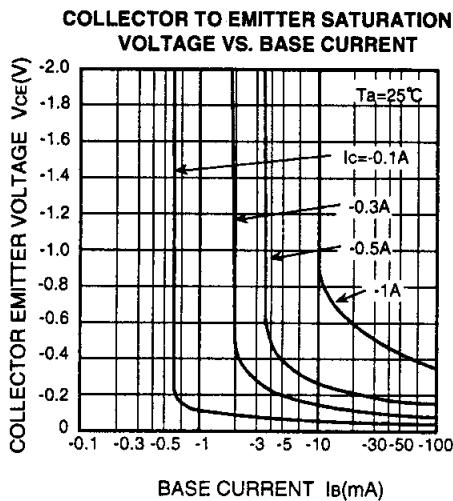
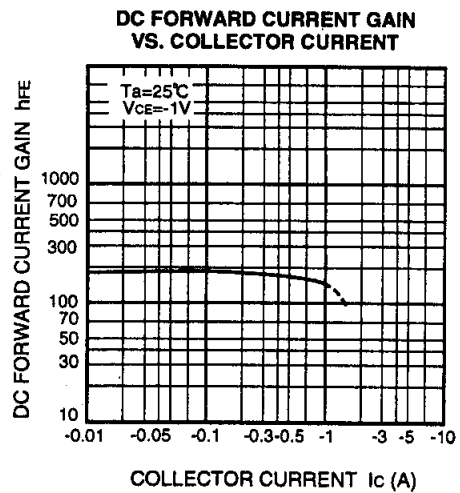
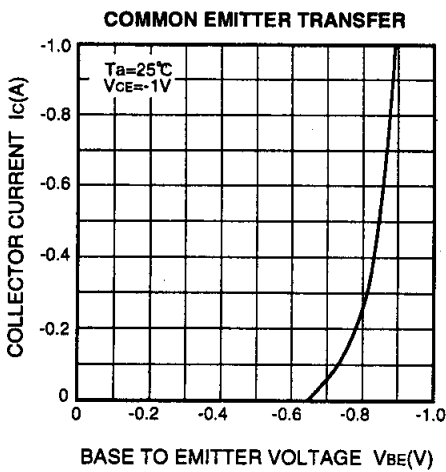
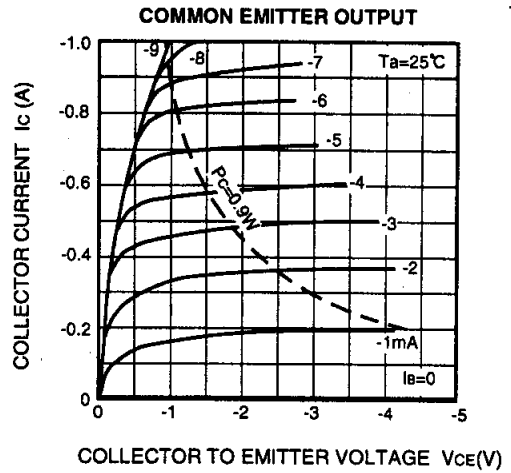
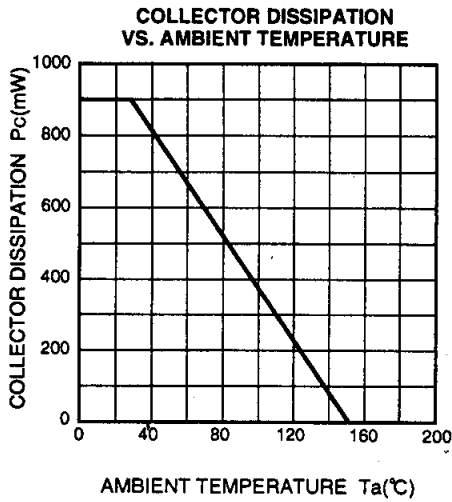
ELECTRICAL CHARACTERISTICS (Ta=25°C)

| Symbol | Parameter | Test conditions | Limits | | | Unit |
|----------------------|---------------------------|---|--------|-----|------|------|
| | | | Min | Typ | Max | |
| V _{(BR)CBO} | C to B break down voltage | I _C = -10 μA, I _E = 0 | -30 | | | V |
| V _{(BR)EBO} | E to B break down voltage | I _E = -10 μA, I _C = 0 | -4 | | | V |
| V _{(BR)CEO} | C to E break down voltage | I _C = -100 μA, R _{BE} = ∞ | -25 | | | V |
| I _{CBO} | Collector cut off current | V _{CB} = -25V, I _E = 0 | | | -1 | μA |
| I _{EBO} | Emitter cut off current | V _{EB} = -2V, I _C = 0 | | | -1 | μA |
| h _{FE} * | DC forward current gain | V _{CE} = -1V, I _C = 500mA | 55 | | 300 | - |
| V _{CE(sat)} | C to E saturation voltage | I _C = -500mA, I _B = -25mA | | | -0.5 | V |
| f _T | Gain band width product | V _{CE} = -6V, I _E = 10mA | | 100 | | MHz |

* : It shows h_{FE} classification in right table.

| Item | C | D | E |
|-----------------|-----------|-----------|------------|
| h _{FE} | 55 to 110 | 90 to 180 | 150 to 300 |

TYPICAL CHARACTERISTICS



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