

**DESCRIPTION**

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

Complementary with 2SD1447.

**FEATURE**

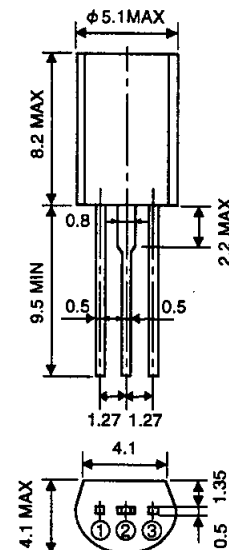
- High collector current  $I_{CM} = -1.5A$
- High gain band width product  $f_T = 100MHz$  typ
- High collector dissipation  $P_C = 900mW$
- Excellent linearity of DC forward current gain

**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	Rating	Unit
V <sub>CB0</sub>	Collector to Base voltage	-30	V
V <sub>EB0</sub>	Emitter to Base voltage	-4	V
V <sub>CE0</sub>	Collector to Emitter voltage	-25	V
I <sub>CM</sub>	Peak collector current	-1.5	A
I <sub>C</sub>	Collector current	-1	A
P <sub>C</sub>	Collector dissipation (Ta=25°C)	900	mW
T <sub>J</sub>	Junction temperature	+150	°C
T <sub>stg</sub>	Storage temperature	-55 to +150	°C

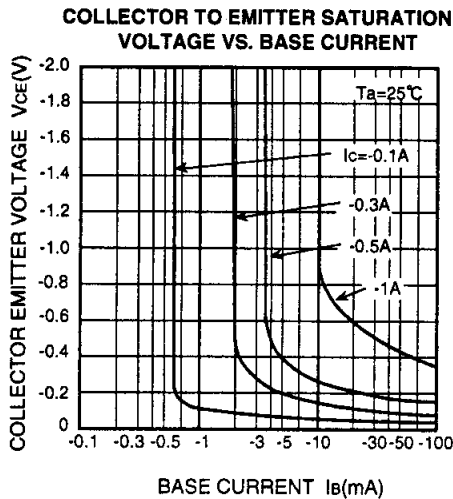
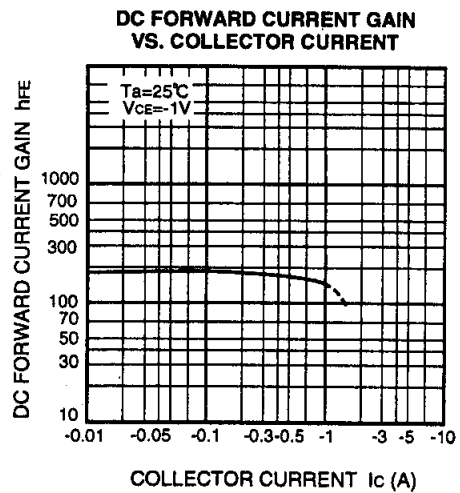
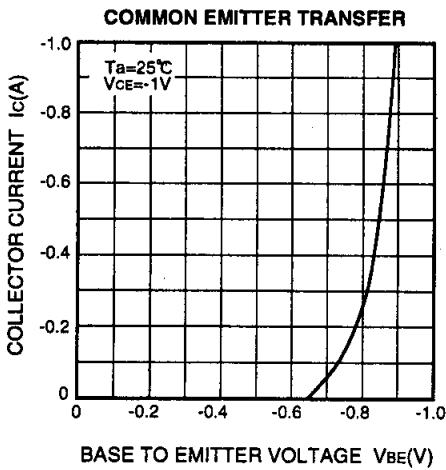
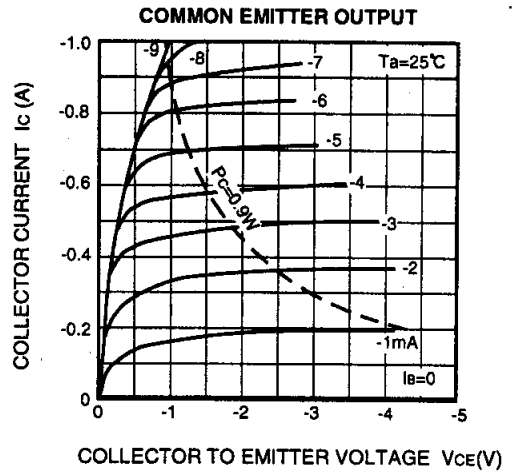
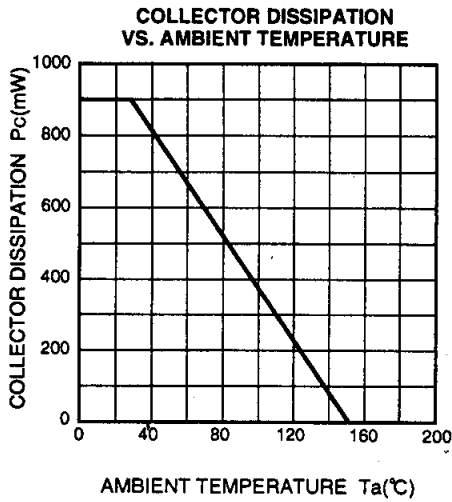
**ELECTRICAL CHARACTERISTICS (Ta=25°C)**

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

\* : It shows h<sub>FE</sub> classification in right table.

Item	C	D	E
h <sub>FE</sub>	55 to 110	90 to 180	150 to 300

TYPICAL CHARACTERISTICS



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