

DESCRIPTION

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

Complementary with 2SD1447.

FEATURE

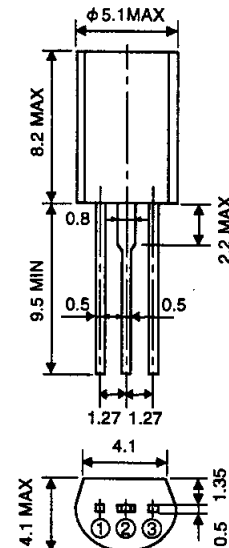
- High collector current $I_{CM} = -1.5A$
- High gain band width product $f_T = 100MHz$ typ
- High collector dissipation $P_C = 900mW$
- Excellent linearity of DC forward current gain

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

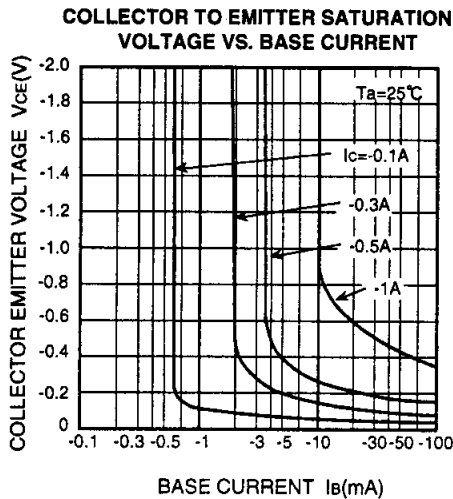
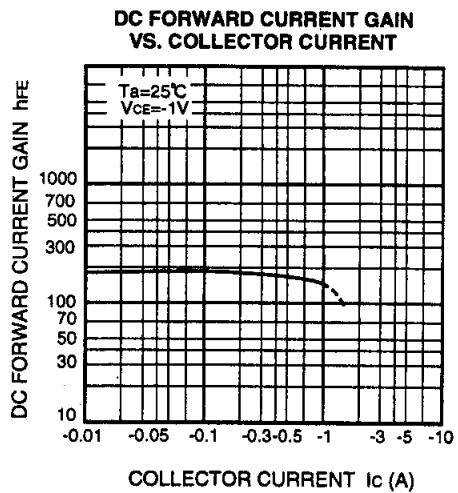
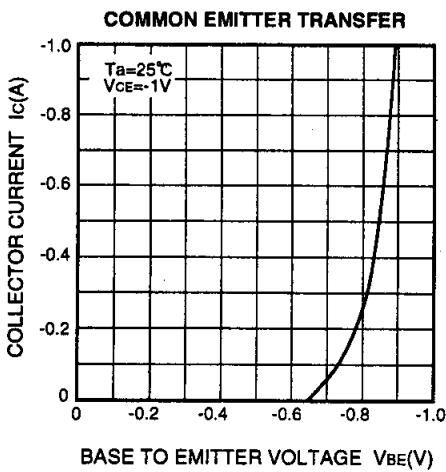
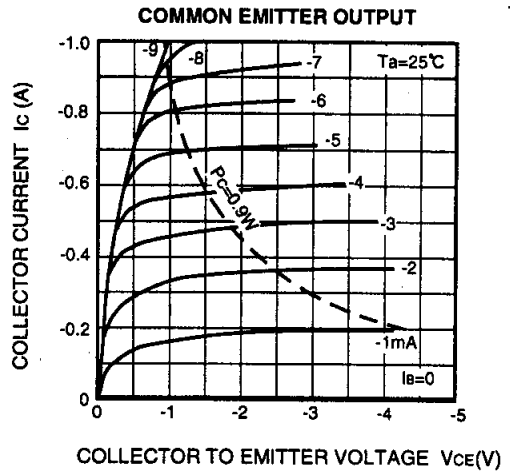
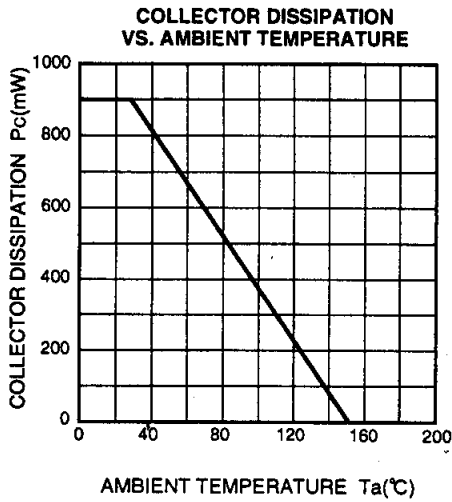
ELECTRICAL CHARACTERISTICS (Ta=25°C)

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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6-41, TSUKUBA, ISAHAYA, NAGASAKI, 854-0065, JAPAN

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