

**FOR LOW FREQUENCY POWER AMPLIFY APPLICATION
SILICON PNP EPITAXIAL TYPE**

DESCRIPTION

2SA1947 is a resin sealed silicon PNP epitaxial type transistor. It is designed with high collector current and 2 to 3.5W low frequency power amplify. Complementary with 2SC5214.

FEATURE

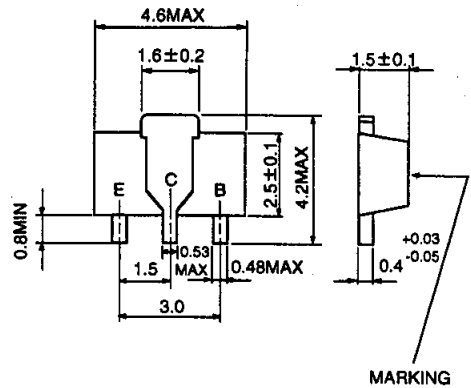
- High f_T $f_T=100\text{MHz}$ typ
- Excellent linearity of DC forward current gain
- High collector current $I_{CM}=-1.5\text{A}$
- Small package for mounting

APPLICATION

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

OUTLINE DRAWING

Unit:mm



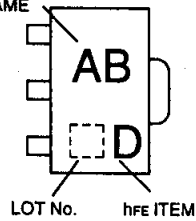
TERMINAL CONNECTOR

E : EMITTER
C : COLLECTOR
B : BASE
EIAJ : SC-62
JEDEC : -

Note)
The dimension without tolerance represent central value.

MARKING

TYPE NAME



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)	500	mW
T _J	Junction temperature	+150	°C
T _{stg}	Storage temperature	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

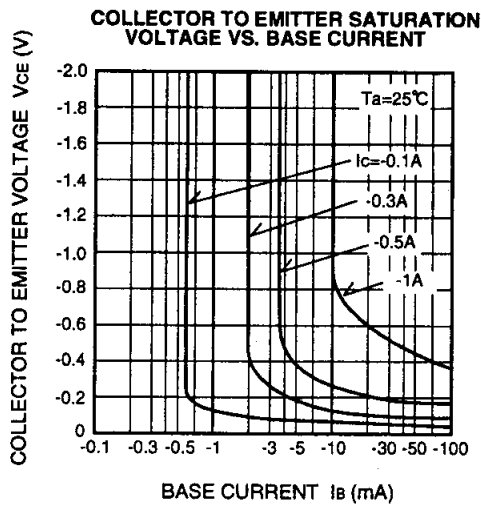
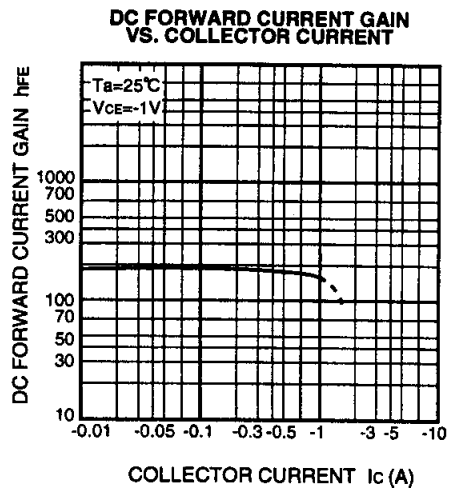
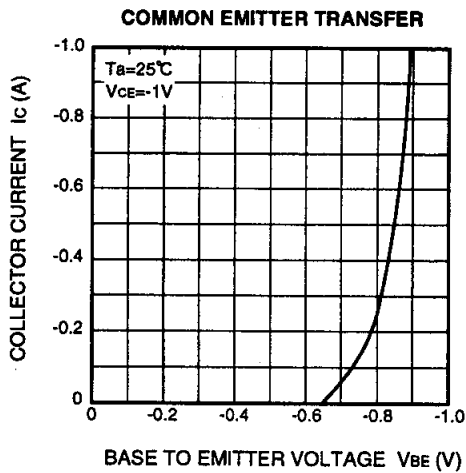
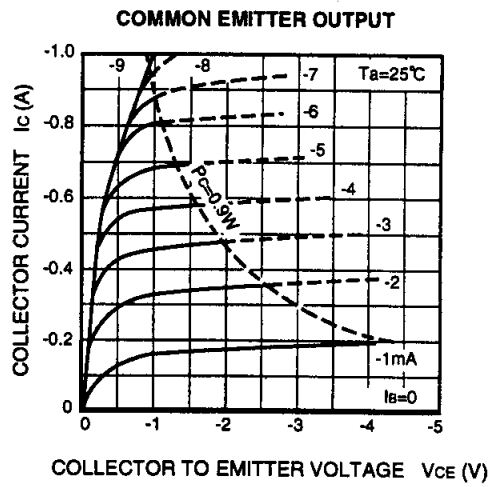
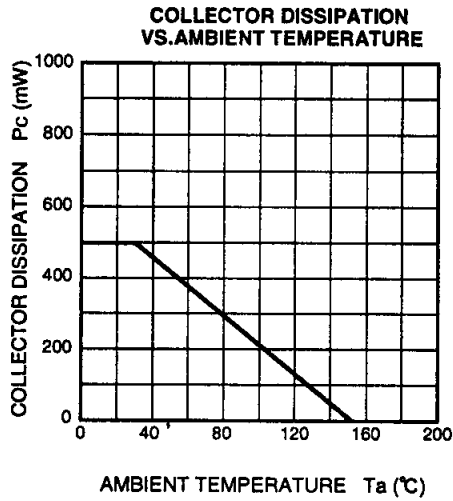
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
V _{(BR)CBO}	C to B break down voltage	I _C =-10 μA, I _E =0	-30			V
V _{(BR)EBO}	E to B break down voltage	I _E =-10 μA, I _C =0	-4			V
V _{(BR)CEO}	C to E break down voltage	I _C =-100 μA, R _{BE} =∞	-25			V
I _{CB0}	Collector cut off current	V _{CB} =-25V, I _E =0			-1	μA
I _{EB0}	Emitter cut off current	V _{BE} =-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 hFE classification in right table.

Marking	ABC	ABD	ABE
hFE	55 to 110	90 to 180	150 to 300

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TYPICAL CHARACTERISTICS



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<http://www.idc-com.co.jp>
6-41, TSUKUBA, ISAHAYA, NAGASAKI, 854-0065, JAPAN

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