

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

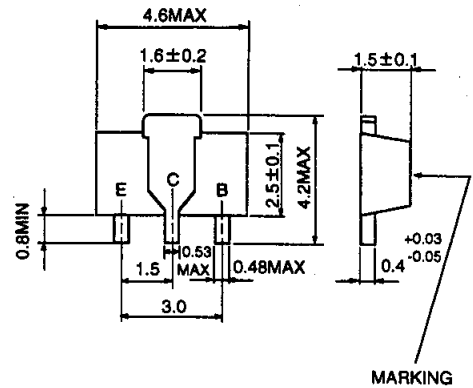
APPLICATION

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

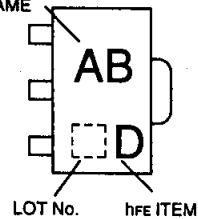
EIAJ : SC-62
JEDEC : -

Note)

The dimension without tolerance represent central value.

MARKING

TYPE NAME



MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
VCBO	Collector to Base voltage	-30	V
VEBO	Emitter to Base voltage	-4	V
VCEO	Collector to Emitter voltage	-25	V
ICM	Peak collector current	-1.5	A
IC	Collector current	-1	A
Pc	Collector dissipation(Ta=25°C)	500	mW
Tj	Junction temperature	+150	°C
Tstg	Storage temperature	-55 to +150	°C

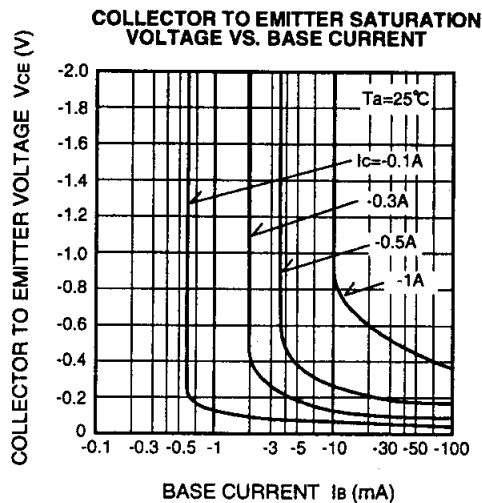
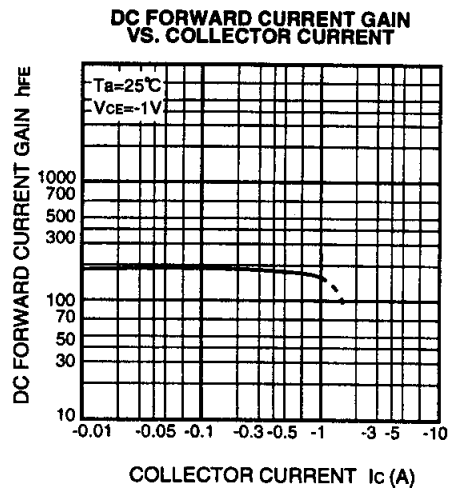
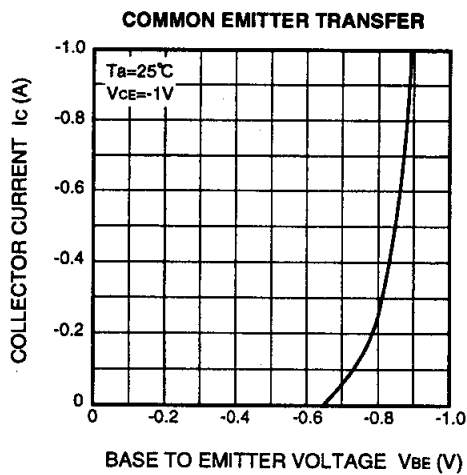
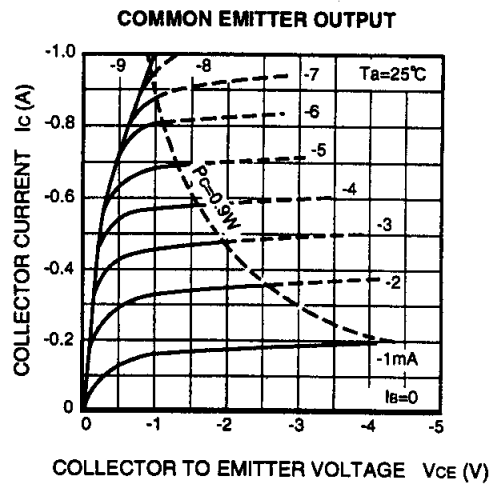
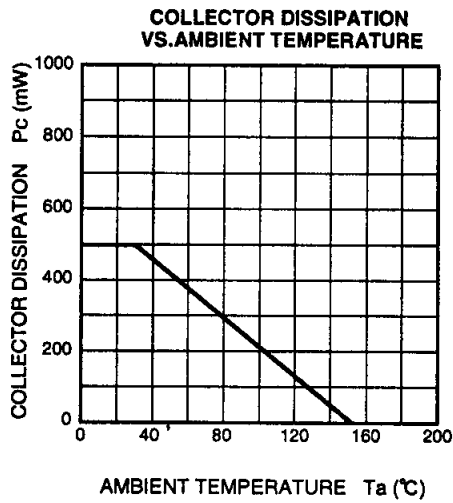
ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
V(BR)CBO	C to B break down voltage	IC=-10 μ A, IE=0	-30			V
V(BR)EBO	E to B break down voltage	IE=-10 μ A, IC=0	-4			V
V(BR)CEO	C to E break down voltage	IC=-100 μ A, RE=∞	-25			V
ICBO	Collector cut off current	VCE=-25V, IE=0			-1	μ A
IEBO	Emitter cut off current	VBE=-2V, IC=0			-1	μ A
hFE *	DC forward current gain	VCE=-1V, IC=-500mA	55		300	—
VCE(sat)	C to E saturation voltage	IC=-500mA, IB=-25mA			-0.5	V
fT	Gain band width product	VCE=-6V, IE=10mA		100		MHz

* : It shows hFE classification in right table.

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

TYPICAL CHARACTERISTICS





<http://www.idc-com.co.jp>
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