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.

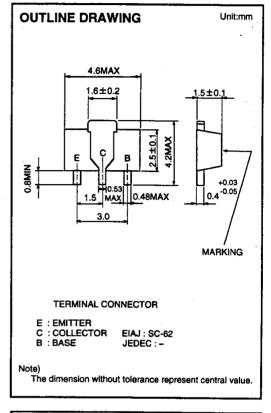
FEATURE

- ●High ft ft=100MHz typ
- Excellent linearity of DC forward current gain
- ●High collector current Icm=-1.5A
- Small package for mounting

APPLICATION

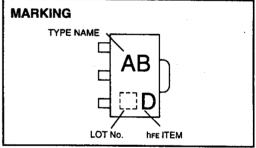
Radio, tape recorder, small type stereo, etc.

Low frequency power amplify circuit with 2 to 3.5W output.



MAXIMUM RATINGS (Ta=25℃)

Symbol	Parameter	Ratings	Unit
Vсво	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	Α
Pc	Collector dissipation(Ta=25°C)	500	mW
Tj	Junction temperature	+150	℃.
Tstg	Storage temperature	-55 to +150	ా



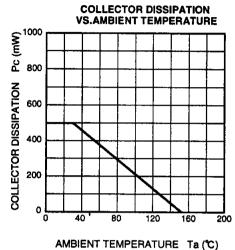
ELECTRICAL CHARACTERISTICS (Ta=25°C)

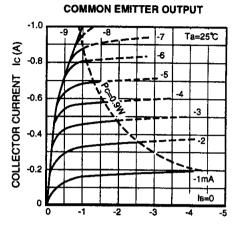
Symbol	Parameter	Test conditions	Limits			I Imia
		rest conditions	Min	Typ	Max	Unit
V(BR)CBO	C to B break down voltage	IC=-10 μ A,IE=0	-30	1	'	V
V(BR)EBO	E to B break down voltage	IE=-10 μ A,IC=0	-4			V
V(BR)CEO	C to E break down voltage	IC=-100 μ A,R8E=∞	-25			V
łсво	Collector cut off current	VcB=-25V,IE=0			-1	μA
lebo	Emitter cut off current	VBE=-2V,IC=0		†——	-1	μA
hfE *	DC forward current gain	VcE=-1V,lc=-500mA	55	ļ	300	μΛ
VCE(sat)	C to E saturation voltage	Ic=-500mA,IB=-25mA			-0.5	l v
fr	Gain band width product	VcF=-6V.IF=10mA		100		MHZ

^{* :} It shows her classification in right table.

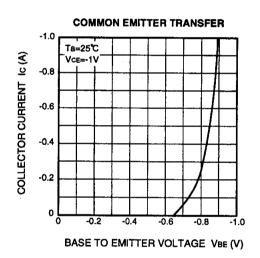
Marking	ABC	ABD	ABE
hfe	55 to 110	90 to 180	150 to 300

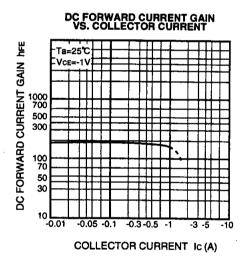
TYPICAL CHARACTERISTICS

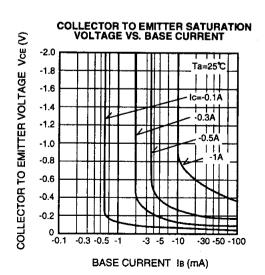




COLLECTOR TO EMITTER VOLTAGE VCE (V)









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