ISB1035AS1

FOR LOW FREQUENCY POWOR AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

ISB1035AS1 is a resin sealed silicon PNP epitaxial type transistor. It is designed for low frequency power amplify application. Complementary with ISD1447AS1.

FEATURE

- ullet High collector current. $I_{\text{CM}} = 1.5 \text{A}$
- High gain band width product. fT= 100MHz typ
- High collecot dissipation. Pc= 600mW
- Excellent linearity of DC forward current gain.

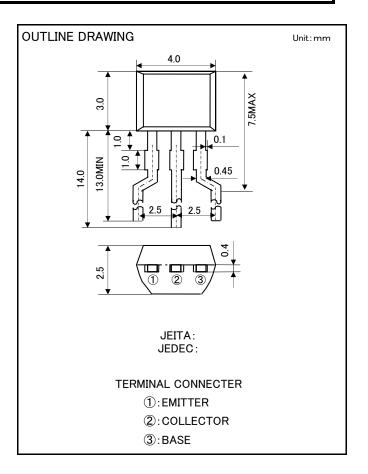
APPLICATION

Radio, tape recorder, small type stereo, etc.

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

MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Parameter Ratings	
Vcво	Collector to Base voltage	-30	V
VEBO	Emitter to Base voltage	-4	V
Vceo	Collector to Emitter voltage	-25	V
I_{C}	Collector current	-1	Α
I _{CM}	Peak collector current	-1.5	Α
P _c	Collector dissipation	600	mW
T_j	Junction temperature	+150	°C
T_{stg}	Storage temperature	−55 ~ +150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter	Parameter	T	Limits			
		Test conditions	Min	Тур	Max	Unit
V(BR)cB0	C to B break down voltage	$I_{C}=-10 \mu A$, $I_{E}=0mA$	-30	-	-	V
V(BR)EBO	E to B break down voltage	I_E = -10 μ A , I_C =0mA	-4	-	-	V
V(BR)ceo	C to E break down voltage	I _C = −100 μ A , R _{BE} = ∞	-25	-	-	V
ICBO	Collector cut off current	$V_{CB} = -25V$, I $_{E} = 0mA$	-	-	-1	μΑ
IEBO	Emitter cut off current	V_{EB} = -2V , I $_{C}$ = 0mA	-	-	-1	μΑ
hFE※	DC forward current gain	$V_{CE} = -1V$, $I_{C} = -500$ mA	55	-	300	-
VCE(sat)	C to E Saturation Voltage	I $_{\text{C}}$ = -500mA , I $_{\text{B}}$ = -25mA	-	-	-0.5	٧
fT	Gain band width product	$V_{CE} = -6V$, $I_{E} = 10mA$	_	100	_	MHz

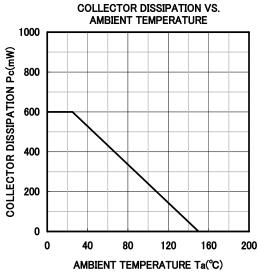
※) It shows hFE classification in right table.

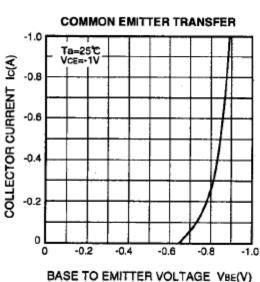
Item		С	D	E
	hFE item	55~110	90~180	150~300

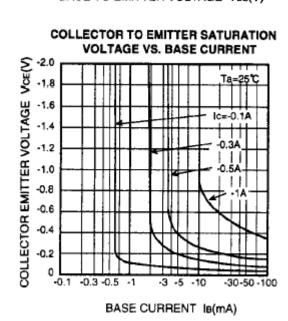
ISB1035AS1

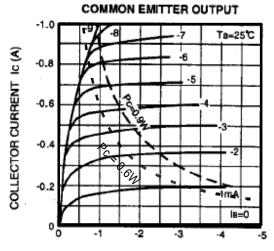
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TYPICAL CHARACTERISTICS

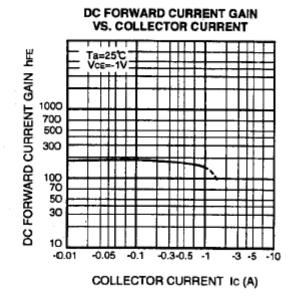








COLLECTOR TO EMITTER VOLTAGE VCE(V)





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