INA6005BC1

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

INA6005BC1 is a silicon PNP transistor.

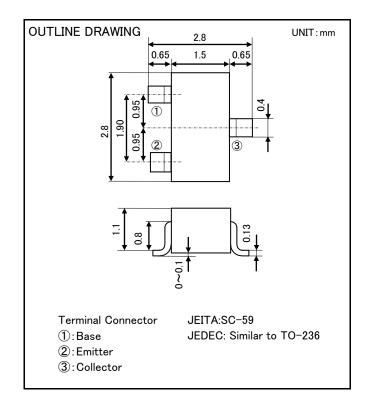
It is designed with high voltage.

FEATURE

- •Super mini package for easy mounting
- High voltage V_{CEO} =-400V

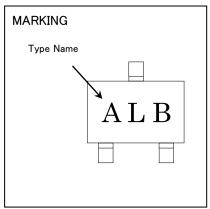
APPLICATION

DC/DC convertor, High voltage switching



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT
V _{CBO}	Collector to Base voltage -400		V
V_{EBO}	Emitter to Base voltage	-7	٧
V _{CEO}	Collector to Emitter voltage	-400	٧
I _c	Collector current	-100	mA
I _{CM}	Peak collector current	-200	mA
P _c	Collector dissipation(Ta=25°C)	200	mW
T _j	Junction temperature	+150	°C
T_{stg}	Storage temperature	-55 ~ +150	°C



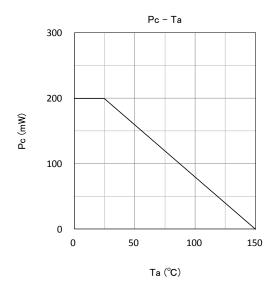
ELECTRICAL CHARACTERISTICS (Ta=25°C)

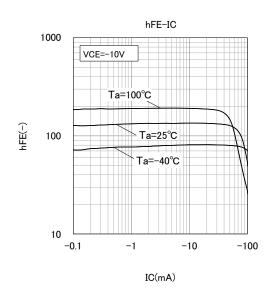
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	UNIT
V _{(BR)CBO}	C to B break down voltage	I_{c} =-50uA, I_{E} =0mA	-400	_	_	V
$V_{(BR)EBO}$	E to B break down voltage	I_{E} =-50uA, I_{C} =0mA	-7	_	_	٧
$V_{(BR)CEO}$	C to E break down voltage	I _C =-1mA, R _{BE} =∞	-400	_	_	٧
$\mathbf{I}_{\mathtt{CBO}}$	Collector cut off current	V_{CB} =-400V, I $_{E}$ =0mA	_	_	-1	uA
\mathbf{I}_{EBO}	Emitter cut off current	V _{EB} =-6V, I _C =0mA	_	_	-1	uA
h _{FE}	DC forward current gain	V_{CE} =-10V, I $_{C}$ =-10mA	82	_	200	_
$V_{CE(sat)}$	C to E saturation voltage	I _C =-20mA, I _B =-2mA	_	_	-0.6	V
f_T	Gain bandwidth product	V _{CE} =-20V, I _E =10mA, f=100MHz	_	65	_	MHz
Cob	Collector output capacitance	V _{CB} =-10V, I _E =0mA, f=1MHz	_	5.5	_	pF

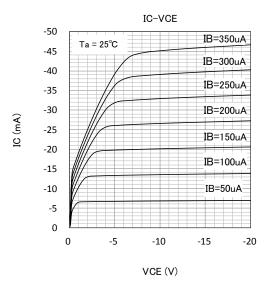
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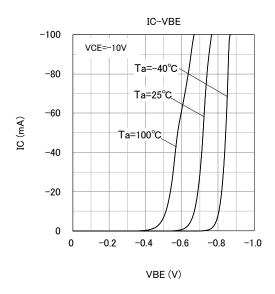
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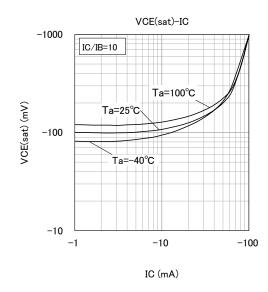
TYPICAL CHARACTERISTICS

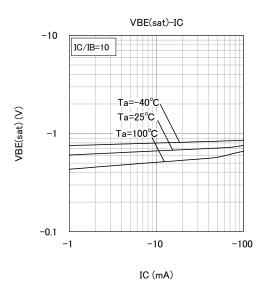






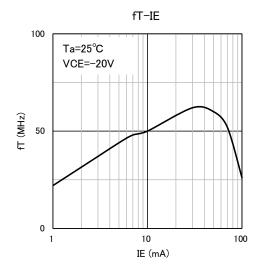


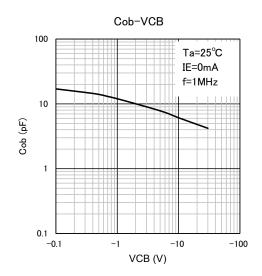




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