

INA6005AC1

FOR LOW FREQUENCY AMPLIFY APPLICATION
SILICON PNP EPITAXIAL TYPE

DESCRIPTION

INA6005AC1 is a silicon PNP transistor.
It is designed with high voltage.

FEATURE

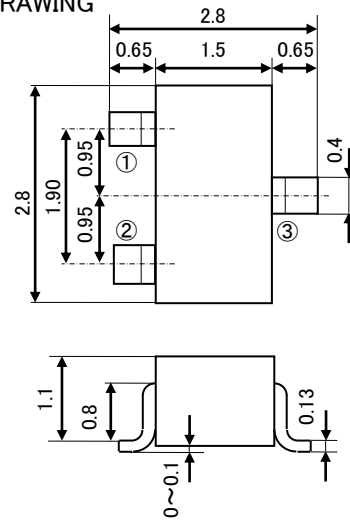
- Super mini package for easy mounting
- High voltage $V_{CE0}=-400V$

APPLICATION

DC/DC convertor, High voltage switching

OUTLINE DRAWING

UNIT : mm



Terminal Connector

JEITA:SC-59

①: Base

JEDEC: Similar to TO-236

②: Emitter

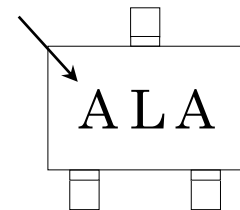
③: Collector

MAXIMUM RATING ($T_a=25^\circ C$)

SYMBOL	PARAMETER	RATING	UNIT
V_{CBO}	Collector to Base voltage	-400	V
V_{EBO}	Emitter to Base voltage	-7	V
V_{CEO}	Collector to Emitter voltage	-400	V
I_C	Collector current	-100	mA
I_{CM}	Peak collector current	-200	mA
P_C	Collector dissipation($T_a=25^\circ C$)	200	mW
T_j	Junction temperature	+150	$^\circ C$
T_{stg}	Storage temperature	-55~+150	$^\circ C$

MARKING

Type Name



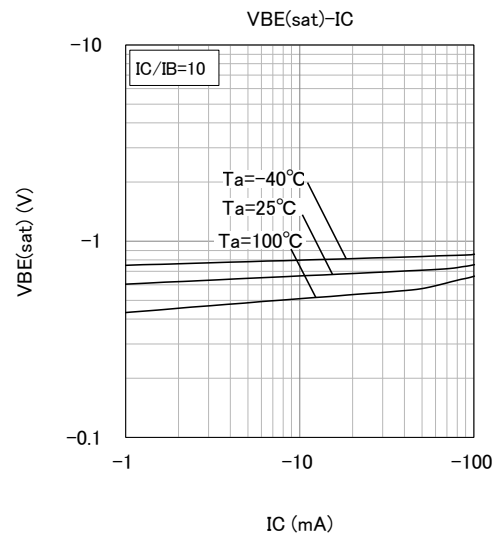
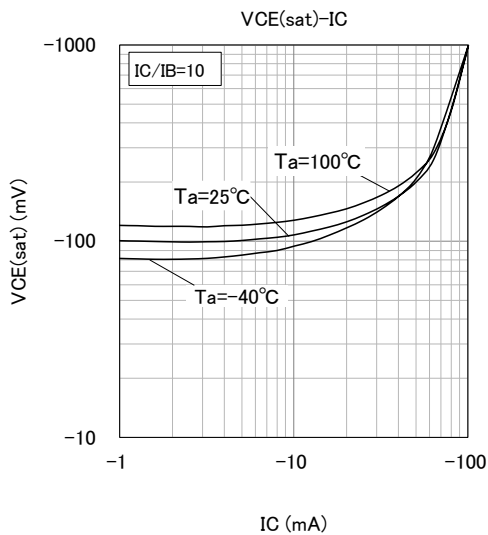
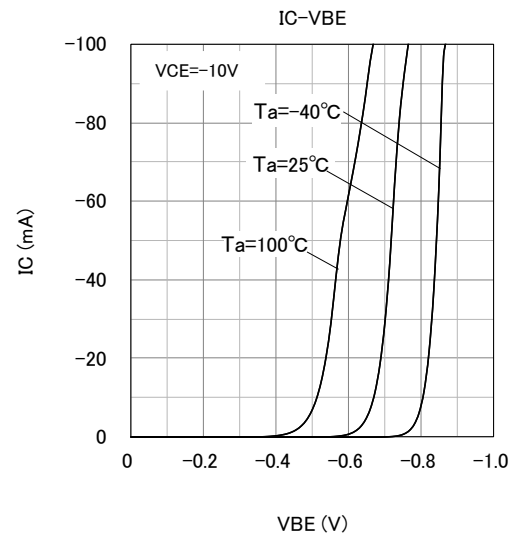
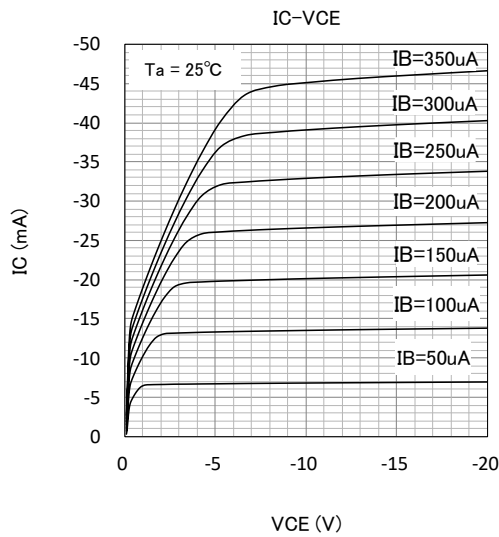
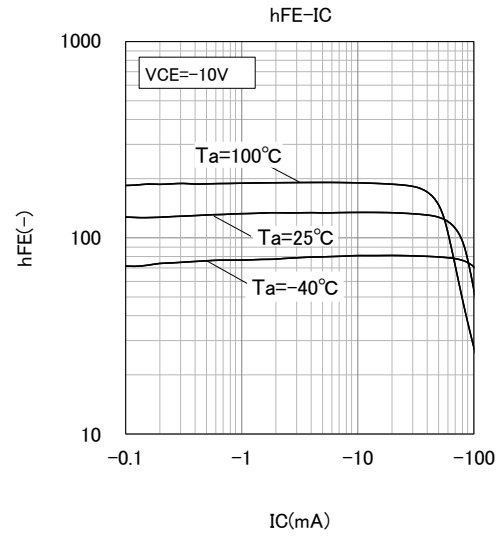
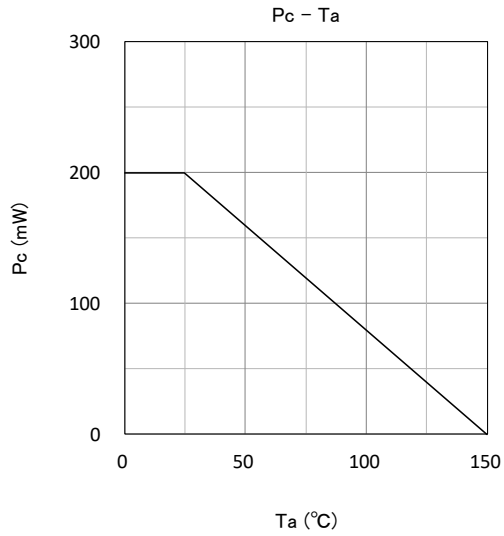
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
$V_{(BR)CBO}$	C to B breakdown voltage	$I_C=-50 \mu A, I_E=0mA$	-400	-	-	V
$V_{(BR)EBO}$	E to B breakdown voltage	$I_E=-50 \mu A, I_C=0mA$	-7	-	-	V
$V_{(BR)CEO}$	C to E breakdown voltage	$I_C=-1mA, R_{BE}=\infty$	-400	-	-	V
I_{CBO}	Collector cut off current	$V_{CB}=-400V, I_E=0mA$	-	-	-1	μA
I_{EBO}	Emitter cut off current	$V_{EB}=-6V, I_C=0mA$	-	-	-1	μA
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
C_{ob}	Collector output capacitance	$V_{CB}=-10V, I_E=0mA, f=1MHz$	-	5.5	-	pF

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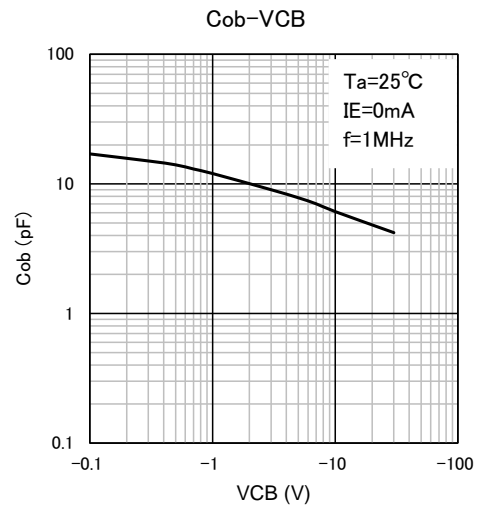
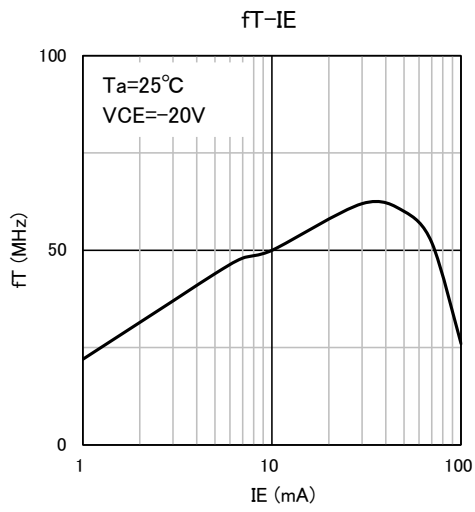
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TYPICAL CHARACTERISTICS



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