

INA6005AP1

FOR LOW FREQUENCY AMPLIFY APPLICATION
SILICON PNP EPITAXIAL TYPE

DESCRIPTION

INA6005AP1 is a silicon PNP transistor.

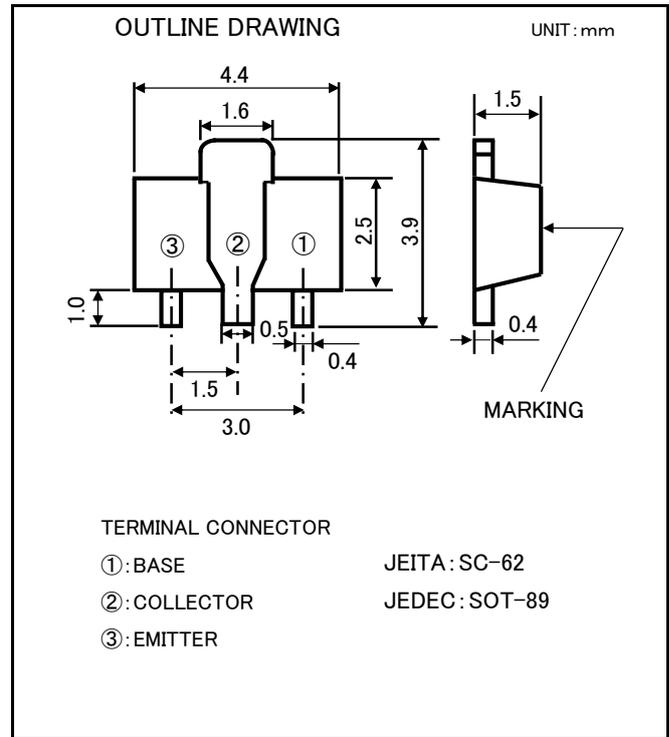
It is designed with high voltage.

FEATURE

- Small package for easy mounting.
- High voltage $V_{CEO} = -400V$

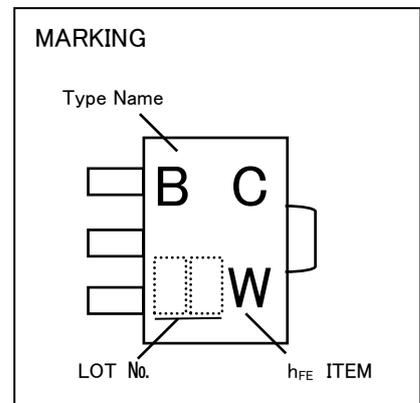
APPLICATION

DC-DC converter, High voltage switching.



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 ($T_a=25^\circ C$)	500	mW
T_j	Junction temperature	+150	$^\circ C$
T_{stg}	Storage temperature	-55 ~ +150	$^\circ C$



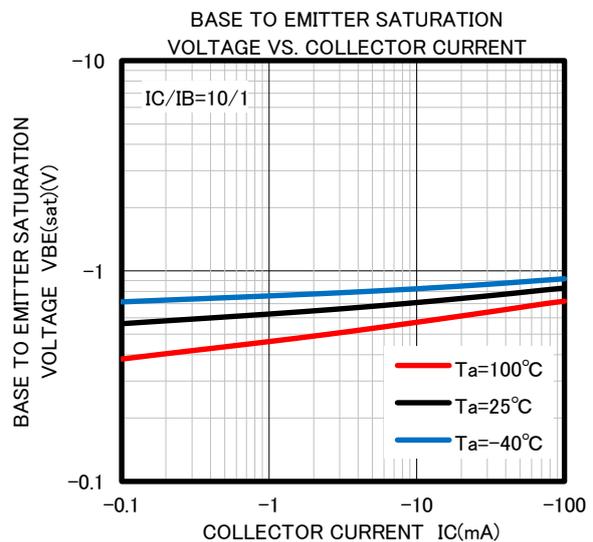
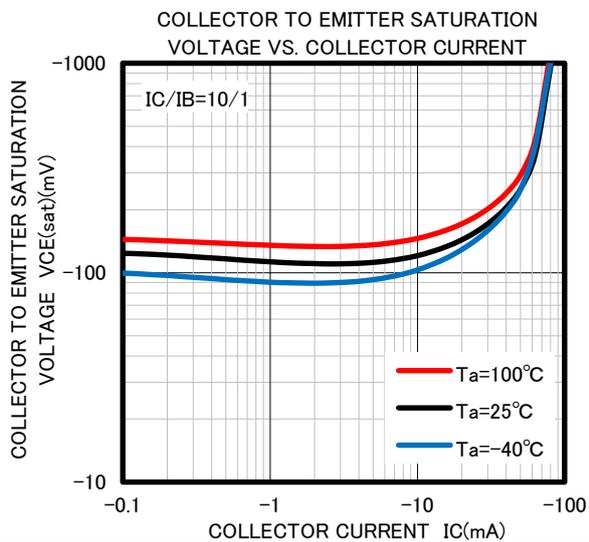
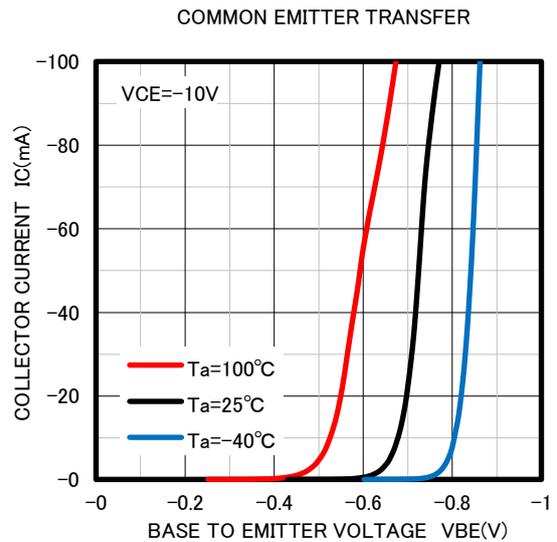
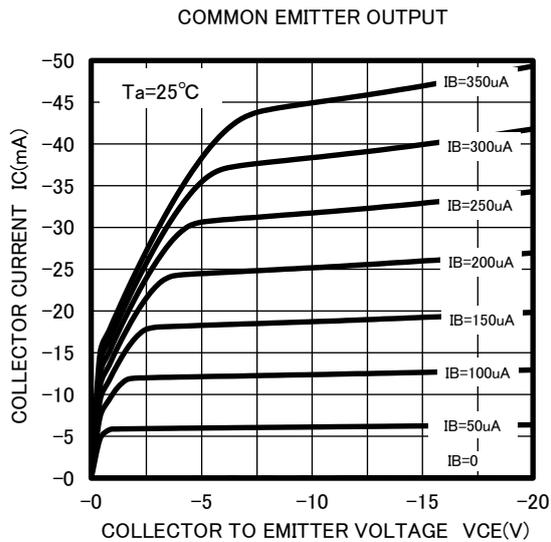
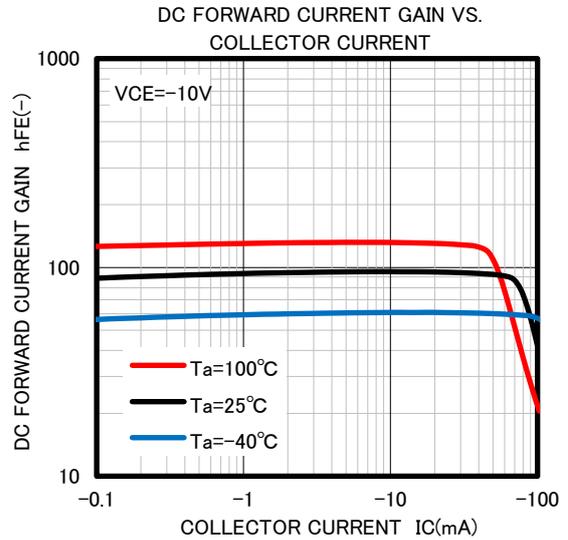
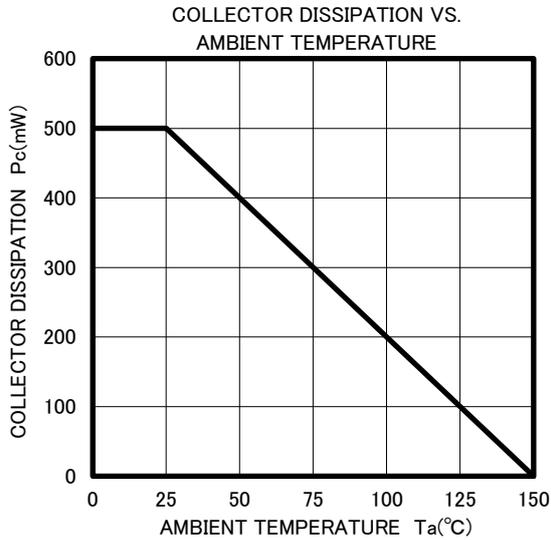
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

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
fT	Gain bandwidth product	$V_{CE} = -20V, I_E = 10mA$	-	65	-	MHz
Cob	Collector output capacitance	$V_{CB} = -10V, I_E = 0mA, f = 1MHz$	-	5.5	-	pF

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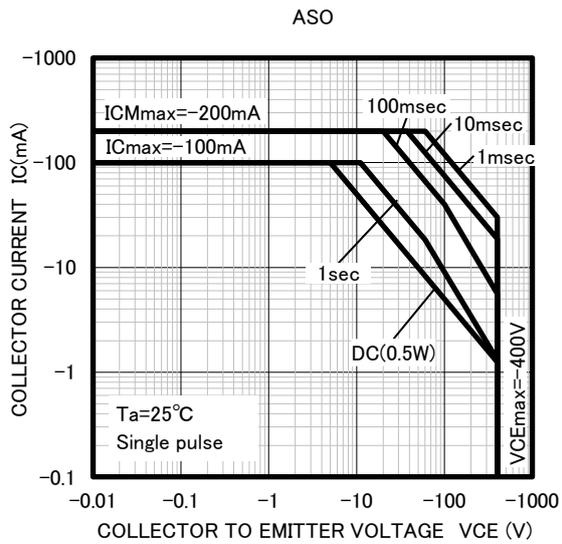
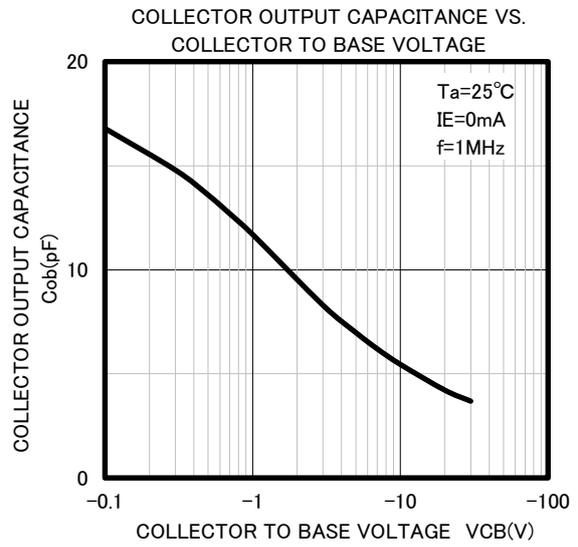
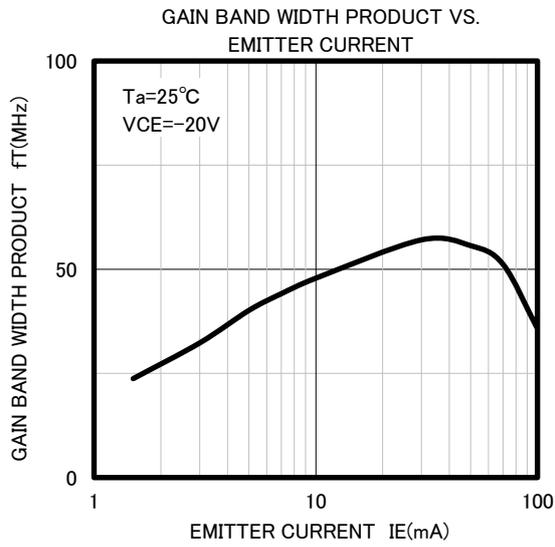
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TYPICAL CHARACTERISTICS



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