INA6006AP1

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

INA6006AP1 is a silicon PNP transistor.

It is designed with high voltage.

FEATURE

• Small package for easy mounting.

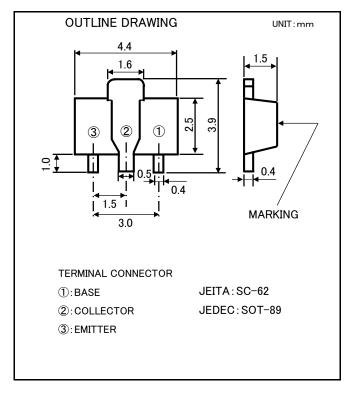
•High voltage $V_{CEO} = -150V$

•Low voltage VCE(sat) = -0.5V(MAX)

•Complementary : INC6006AP1

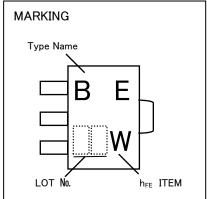
APPLICATION

High voltage switching.



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT
V _{CBO}	Collector to Base voltage	-160	V
V_{EBO}	Emitter to Base voltage	-5	٧
V_{CEO}	Collector to Emitter voltage	-150	٧
I_{C}	Collector current	-100	mA
I _{CM}	Peak collector current	-200	mA
Pc	Collector dissipation(Ta=25°C)	500	mW
Tj	Junction temperature	+150	°C
T_{stg}	Storage temperature	-55 ~ +150	°C



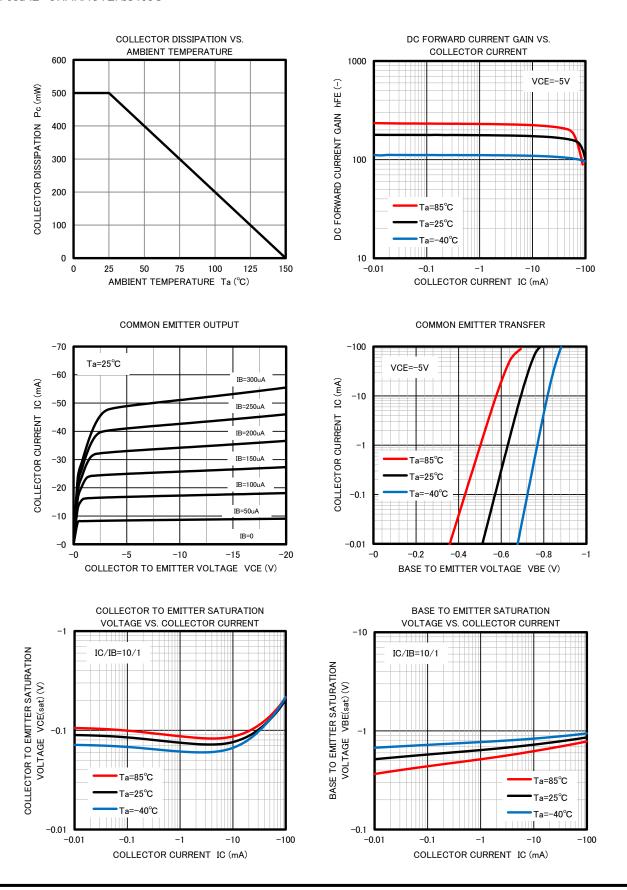
ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITIONS		LIMITS		
		TEST CONDITIONS	MIN	TYP	MAX	UNIT
$V_{(BR)CBO} \\$	C to B breakdown voltage	I_C =-100 μ A, I_E =0mA	-160	_	-	٧
$V_{(BR)EBO}$	E to B breakdown voltage	$I_E=-10 \mu A, I_C=0mA$	-5	_	-	٧
$V_{(\text{BR})\text{CEO}}$	C to E breakdown voltage	$I_C=-1$ mA, $R_{BE}=\infty$	-150	_	-	٧
I_{CBO}	Collector cut off current	V_{CB} =-120V, I_{E} =0mA	_	-	-100	nA
I_{EBO}	Emitter cut off current	V_{EB} =-3 V , I_{C} =0 mA	_	-	-100	nA
h _{FE1}	DC forward current gain1	V_{CE} =-5V, I_{C} =-1mA	45	_	-	-
h _{FE2}	DC forward current gain2	V_{CE} =-5V, I_{C} =-10mA	90	-	270	-
h _{FE3}	DC forward current gain3	V_{CE} =-5V, I_{C} =-50mA	45	_	-	-
$V_{\text{CE}(\text{sat})1}$	C to E saturation voltage1	I _C =-10mA, I _B =-1mA	_	_	-0.2	٧
$V_{\text{CE}(\text{sat})2}$	C to E saturation voltage2	I_C =-50mA, I_B =-5mA	_	-	-0.5	٧
$V_{BE(sat)1}$	B to E saturation voltage1	I _C =-10mA, I _B =-1mA	-	_	-1.0	٧
V _{BE(sat)2}	B to E saturation voltage2	I _C =-50mA, I _B =-5mA	-	-	-1.0	V
$V_{BE(on)}$	B to E on voltage	V _{CE} =-5V, I _C =-10mA	_	-	-0.77	٧
fT	Gain bandwidth product	V _{CE} =-10V, I _E =10mA	100	-	300	MHz
Cob	Collector output capacitance	V_{CB} =-10V, I_E =0mA, f=1MHz	_	2.8	6	рF

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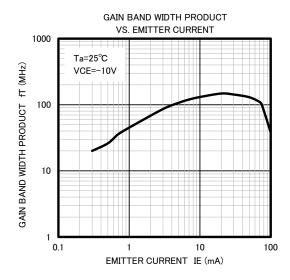
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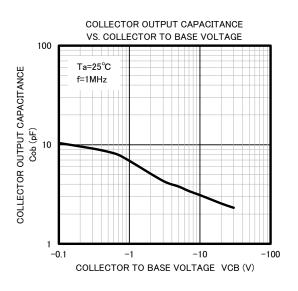
TYPICIAL CHARACTERISTICS

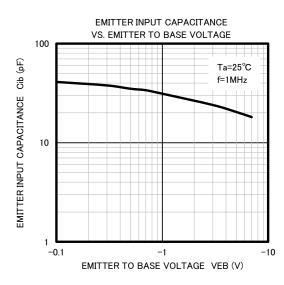


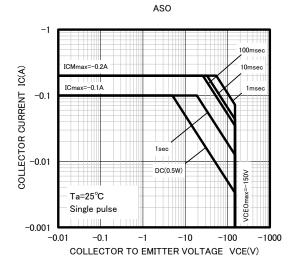
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