PRELIMINARY

INA6006AS1

Notice: This is not a final specification Some parametric are subject to change.

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

INA6006AS1 is a silicon PNP transistor.

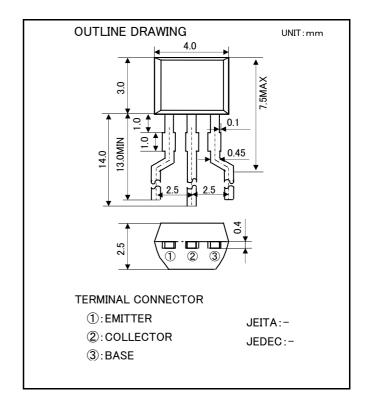
It is designed with high voltage.

FEATURE

- ·Small package for easy mounting.
- •High voltage $V_{CEO} = -150V$
- •Low voltage $V_{CE(sat)} = -0.5V(MAX)$
- •Complementary : INC6006AS1

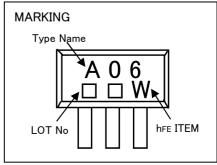
APPLICATION

High voltage switching.



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT
V _{CBO}	Collector to Base voltage	-160	٧
V_{EBO}	Emitter to Base voltage	-5	٧
V _{CEO}	Collector to Emitter voltage	-150	٧
I _{CM}	Peak collector current	-200	mA
I c	Collector current	-100	mA
P _c	Collector dissipation(Ta=25°C)	600	mW
T_{j}	Junction temperature	+150	ပ္
T_{stg}	Storage temperature	-55 ~ +150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITIONS		LIMITS		
			MIN	TYP	MAX	UNIT
$V_{(BR)CBO}$	C to B break down voltage	$I_{C}=-100 \mu A, I_{E}=0mA$	-160	-	_	V
V _{(BR)EBO}	E to B break down voltage	$I_E=-10 \mu A, I_C=0mA$	-5	-	_	٧
V _{(BR)CEO}	C to E break down voltage	I _C =-1mA, R _{BE} =∞	-150	-	_	٧
СВО	Collector cut off current	V_{CB} =-120V, I $_{E}$ =0mA	_	-	-100	nA
EBO	Emitter cut off current	V _{EB} =-3V, I _C =0mA	-	-	-100	nA
n _{FE1}	DC forward current gain1	V_{CE} =-5V, I $_{C}$ =-1mA	45	-	_	-
η _{FE2}	DC forward current gain2	V _{CE} =-5V, I _C =-10mA	90	-	270	-
n _{FE3}	DC forward current gain3	V _{CE} =-5V, I _C =-50mA	45	-	_	-
V _{CE(sat)1}	C to E saturation voltage1	I _C =-10mA, I _B =-1mA	-	-	-0.2	٧
V _{CE(sat)2}	C to E saturation voltage2	$I_{c}=-50$ mA, $I_{B}=-5$ mA	-	-	-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	٧
V _{BE(on)}	B to E on voltage	V_{CE} =-5V, I $_{C}$ =-10mA	-	-	-0.77	٧
F _T	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	pF

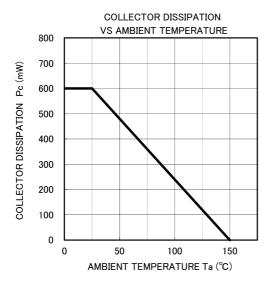
PRELIMINARY

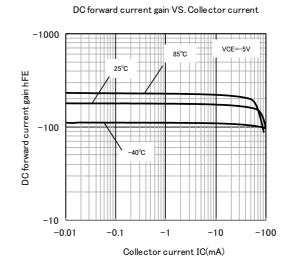
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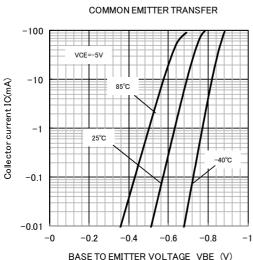
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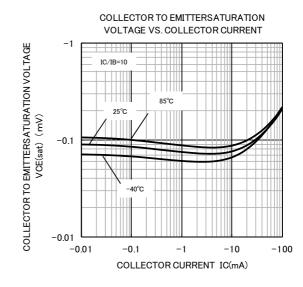
FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE

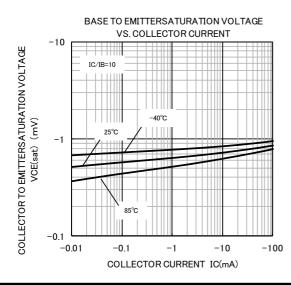
TYPICIAL CHARACTERISTICS

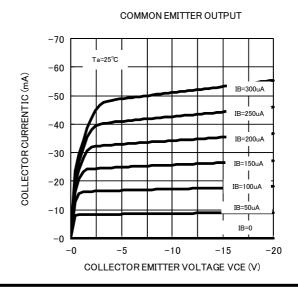










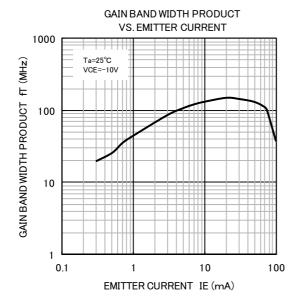


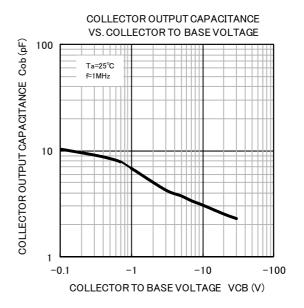
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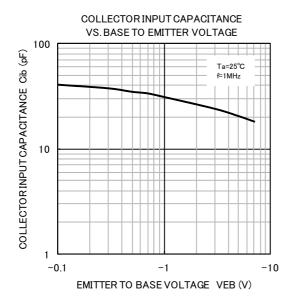
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FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE









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