INA6006AS1

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

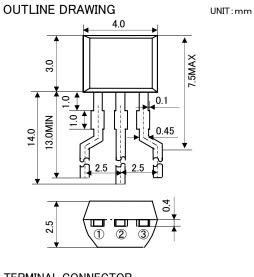
INA6006AS1 is a silicon PNP transistor. It is designed with high voltage.

FEATURE

- •High voltage $V_{CEO} = -150V$
- •Low voltage $V_{CE(sat)} = -0.5V(MAX)$
- •Small capacitance Cob=2.8pF(TYP)
- Complementary : INC6006AS1

APPLICATION

Hi-Fi Audio, High voltage switching.



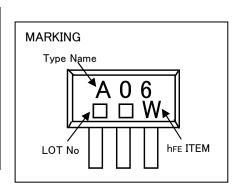
TERMINAL CONNECTOR

EMITTER
COLLECTOR
BASE

JEITA:-JEDEC:-

MAXIMUM RATING(Ta=25°C)

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



ELECTRICAL CHARACTERISTICS (Ta=25°C)

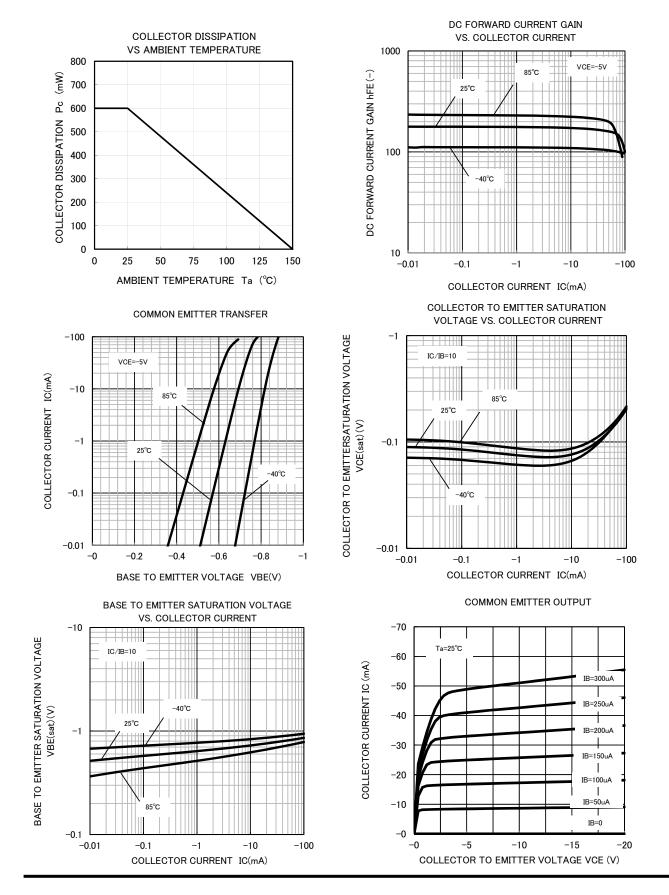
SYMBOL	PARAMETER	TEAT CONDITIONS		LIMITS		
		TEST CONDITIONS	MIN	TYP	MAX	UNIT
$V_{(BR)CBO}$	C to B break down voltage	I_{c} =-100 μ A, I_{E} =0mA	-160	-	-	V
$V_{(BR)EBO}$	E to B break down voltage	I_{E} =-10 μ A, I_{C} =0mA	-5	-	-	V
$V_{(\text{BR})\text{CEO}}$	C to E break down voltage	$I_c = -1 \text{mA}, R_{BE} = \infty$	-150	-	-	V
\mathbf{I}_{CBO}	Collector cut off current	V _{CB} =-120V, I _E =0mA	-	_	-100	nA
\mathbf{I}_{EBO}	Emitter cut off current	V _{EB} =-3V, I _c =0mA	-	_	-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	V
$V_{CE(sat)2}$	C to E saturation voltage2	I _c =-50mA, I _B =-5mA	-	-	-0.5	V
$V_{\text{BE(sat)1}}$	B to E saturation voltage1	I _c =-10mA, I _B =-1mA	-	-	-1.0	V
$V_{BE(sat)2}$	B to E saturation voltage2	I _c =-50mA, I _B =-5mA	-	-	-1.0	V
$V_{\text{BE(on)}}$	B to E on voltage	V _{CE} =-5V, I _C =-10mA	-	-	-0.77	V
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	_	pF

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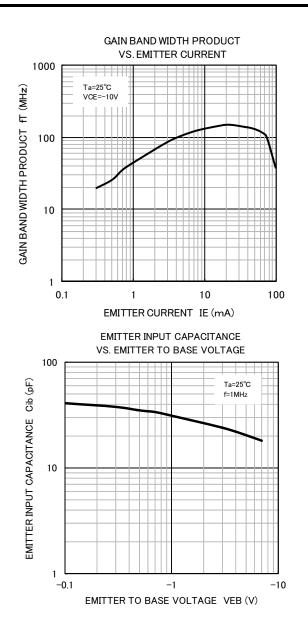
TYPICIAL CHARACTERISTICS

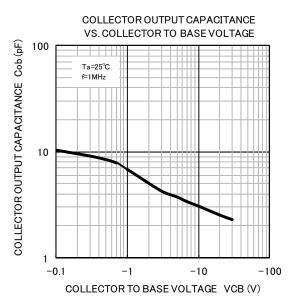


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