PRELIMINARY

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

FOR HIGH CURRENT DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

INA5006AC1 is a silicon PNP epitaxial type transistor. It is designed with high collector current and small $V_{\text{CE(sat)}}$.

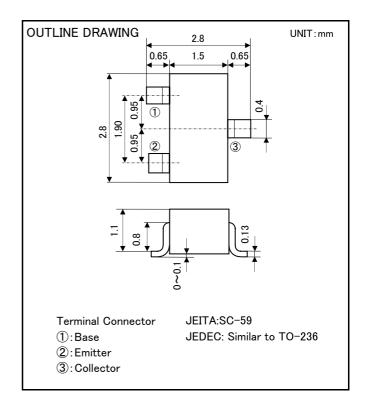
FEATURE

- •Super mini package for easy mounting
- •High collector current(I_C=-2A)
- •Low collector saturation voltage

$$(V_{CE(sat)} < -0.2V_{max}; I_{C} = -1A, I_{B} = -33mA)$$

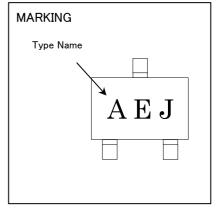
APPLICATION

Audiovisual apparatus, Relay drive



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT	
V _{CEO}	Collector to Emitter voltage	-50	٧	
V_{CBO}	Collector to Base voltage	-50	٧	
V_{EBO}	Emitter to Base voltage	-7	٧	
Ic	Collector current	-2	Α	
P _c	Collector dissipation(Ta=25°C)	200	mW	
		900(*)		
T _j	Junction temperature	+150	°C	
T_{stg}	Storage temperature	-55 ~ +150	°C	



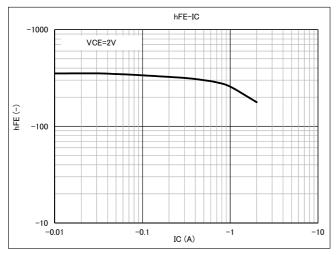
ELECTRICAL CHARACTERISTICS (Ta=25°C)

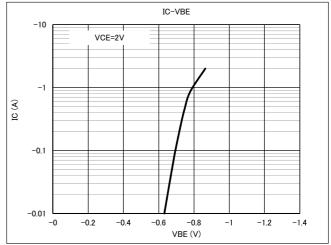
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
STWIBOL			MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	I _C =-10mA, I _B =0mA	-50	_	-	V
$V_{(BR)CBO}$	C to B break down voltage	I_{c} =-100 μ A, I_{E} =0mA	-50	-	-	V
$V_{(BR)EBO}$	E to B break down voltage	$I_E=-100 \mu A$, $I_C=0mA$	-7	_	-	V
I _{CBO}	Collector cut off current	V_{CB} =-50V, I $_{E}$ =0mA	_	_	-0.1	μΑ
I _{EBO}	Emitter cut off current	V _{EB} =-7V, I _C =0mA	_	_	-0.1	μΑ
h _{FE1}	DC forward current gain1	V_{CE} =-2V, I $_{C}$ =-300mA	200	_	500	_
h _{FE2}	DC forward current gain2	V_{CE} =-2V, I $_{C}$ =-1A	100	_	-	_
V _{CE(sat)}	C to E saturation voltage	I _C =-1A, I _B =-33mA	_	-	-0.2	V
V _{BE(sat)}	B to E saturation voltage	I _c =-1A, I _B =-33mA	_	_	-1.1	V
f _T	Gain bandwidth product	V _{CE} =-2V, I _E =300mA, f=100MHz	_	180	_	MHz
Cob	Collector output capacitance	V _{CB} =-10V, f=100MHz	_	20	-	pF

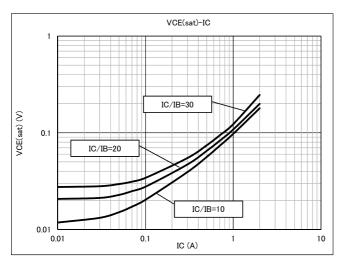
^{*}Mounted on ceramic board(19mm \times 9mm \times 1mm)

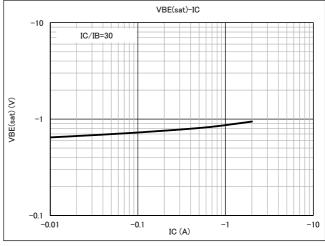
FOR HIGH CURRENT DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE

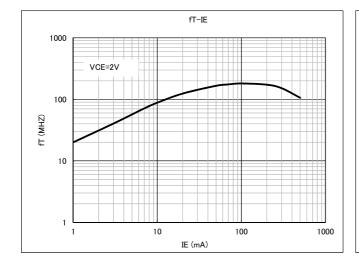
TYPICAL CHARACTERISTICS (Ta=25°C)

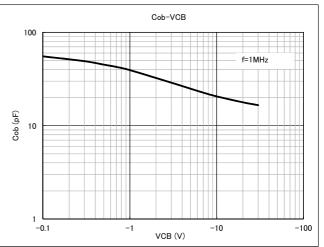






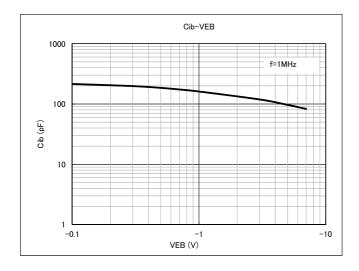


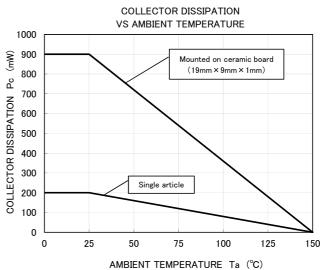




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FOR HIGH CURRENT DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE







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