INA5006AC1

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 $V_{\text{CE(sat)}}$.

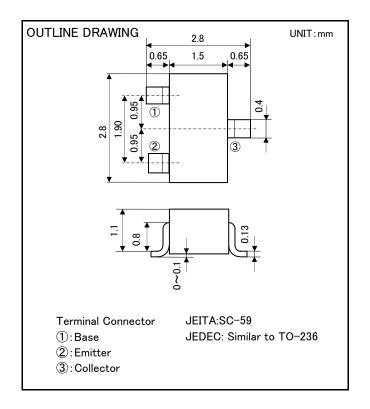
FEATURE

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

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

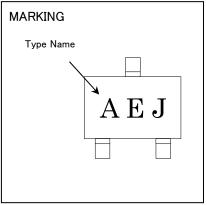
APPLICATION

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	
Ιc	Collector current	-2	Α	
P _c	Collector dissipation(Ta=25°C)	200	mW	
	Gollector dissipation(Ta-25 C)	900(*)		
T _j	Junction temperature	+150	°C	
T_{stg}	Storage temperature	temperature −55~+150		



ELECTRICAL CHARACTERISTICS (Ta=25°C)

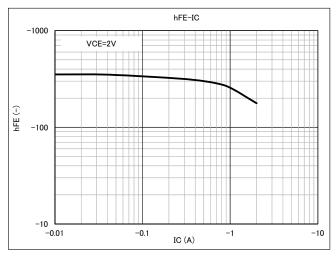
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	UNIT
V _{(BR)CEO}	C to E break down voltage	I _C =-10mA, I _B =0mA	-50	_	_	V
V _{(BR)CBO}	C to B break down voltage	$I_{c}=-100 \mu$ A, $I_{E}=0$ mA	-50	-	_	V
V _{(BR)EBO}	E to B break down voltage	$I_E=-100 \mu A, I_C=0mA$	-7	-	_	V
I _{CBO}	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

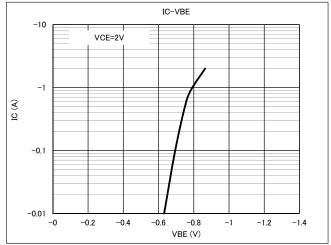
^{*}Mounted on ceramic board(19mm × 9mm × 1mm)

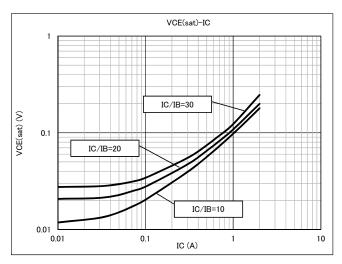
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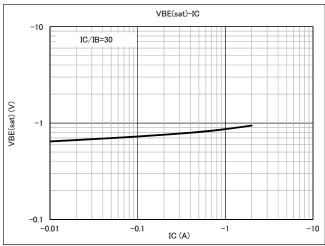
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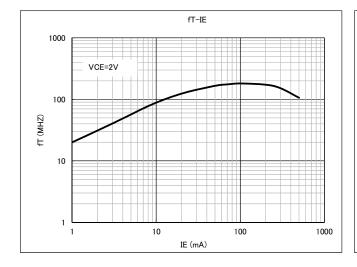
TYPICAL CHARACTERISTICS (Ta=25°C)

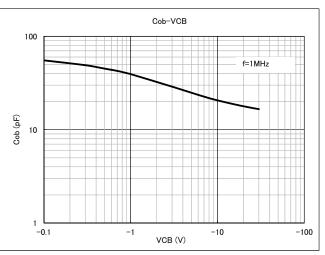






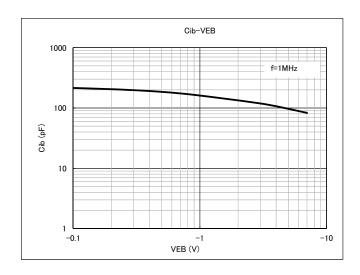


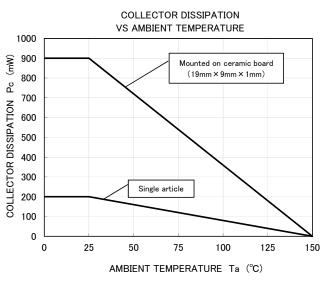




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