INA5006AC1

FOR HIGH CURRENT DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

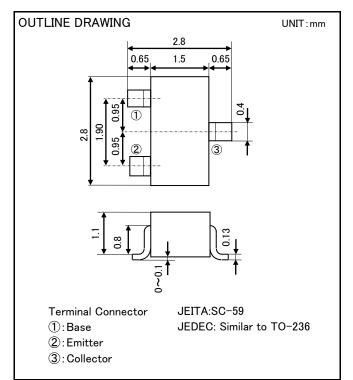
INA5006AC1 is a silicon PNP epitaxial type transistor. It is designed with high collector current and small $V_{\text{CE(sat)}}$

FEATURE

- •Super mini package for easy mounting
- •High collector current(I_c =-2A)
- •Low collector saturation voltage
- $(V_{CE(sat)} = -0.2V_{max} @I_{C} = -1A, I_{B} = -33mA)$

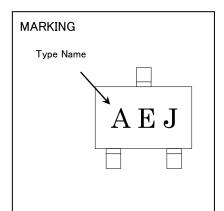
APPLICATION

Audiovisual apparatus, Relay drive



MAXIMUM RATING(Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT			
V_{CEO}	Collector to Emitter voltage	-50	V			
V _{CBO}	Collector to Base voltage	-50	V			
V_{EBO}	Emitter to Base voltage	-7	V			
Ιc	Collector current	-2	Α			
Pc	Collector dissipation	200	- mW			
		900(*)				
Tj	Junction temperature	+150	°C			
T_{stg}	Storage temperature	-55~+150	°C			
*Mounted on ceramic board(19mm × 9mm × 1mm)						



ELECTRICAL CHARACTERISTICS (Ta=25°C)

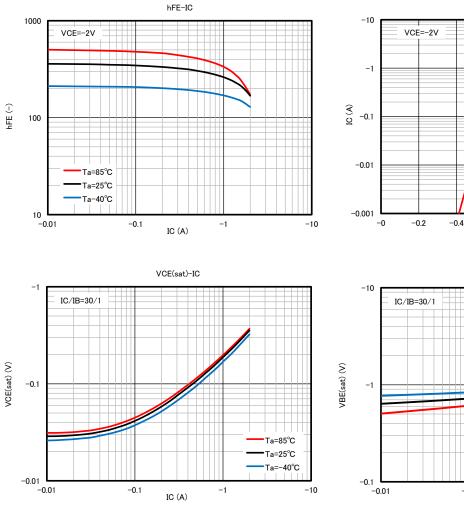
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
STWBOL			MIN	TYP	MAX	UNIT
V _{(BR)CEO}	C to E breakdown voltage	I _c =-10mA, I _B =0mA	-50	-	-	V
V _{(BR)CBO}	C to B breakdown voltage	I _c =-100 μ A, I _E =0mA	-50	_	1	V
$V_{(BR)EBO}$	E to B breakdown voltage	I_{E} =-100 μ A, I _c =0mA	-7	_	-	V
I _{CBO}	Collector cut off current	V_{CB} =-50V, I _E =0mA	-	-	-0.1	μA
I _{EBO}	Emitter cut off current	V _{EB} =-7V, I _C =0mA	-	-	-0.1	μA
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	-	-	-
$V_{\text{CE(sat)}}$	C to E saturation voltage	I _c =-1A, I _B =-33mA	-	-	-0.2	V
$V_{\text{BE(sat)}}$	B to E saturation voltage	I _с =-1А, I _в =-33mА	-	-	-1.1	V
f⊤	Gain bandwidth product	V_{CE} =-2V, I _E =300mA, f=100MHz	-	180	-	MHz
Cob	Collector output capacitance	V _{CB} =-10V, f=1MHz	-	20	-	рF

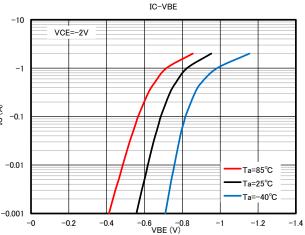
ISAHAYA ELECTRONICS CORPORATION

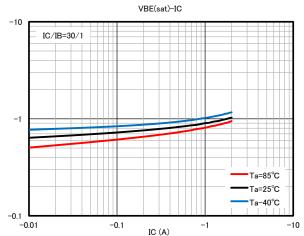
INA5006AC1

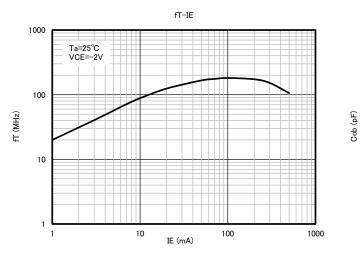
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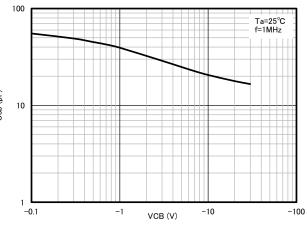
TYPICAL CHARACTERISTICS







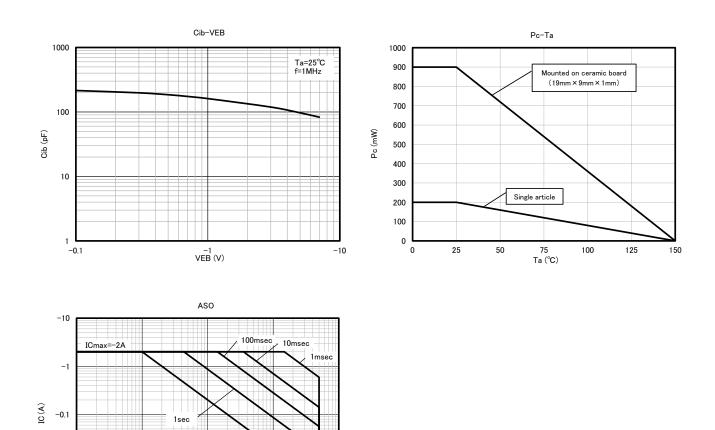




Cob-VCB

INA5006AC1

FOR HIGH CURRENT DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE



VCEOmax=-50V

-100

-10

DC(200mW)

-1 VCE(V)

-0.01

-0.001

-0.01

Ta=25°C Single pulse

-0.1

Keep safety first in your circuit designs!

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