PRELIMINARY

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

FOR HIGH CURRENT DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

INA5005AC1 is a silicon PNP epitaxial type transistor. It is designed with high collector current and small $V_{\text{CE(sat)}}$.

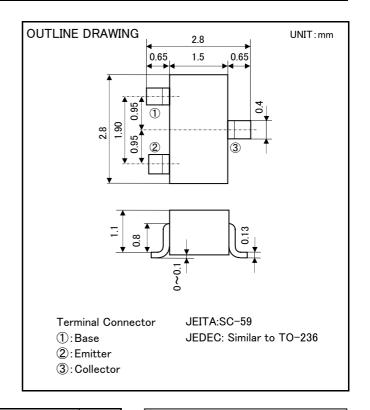
FEATURE

- •Super mini package for easy mounting
- •High collector current(I_c =-1.5A)
- •Low collector saturation voltage

 $(V_{CE(sat)} < -0.5V_{max}; I_{C} = -800 mA, I_{B} = -80 mA)$

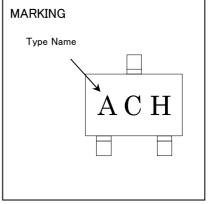
APPLICATION

For switching, Small type motor drive



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT
V_{CEO}	Collector to Emitter voltage	-25	>
V_{CBO}	Collector to Base voltage	-40	٧
V_{EBO}	Emitter to Base voltage	-6	٧
I _C	Collector current	-1.5	Α
P _c	Collector dissipation(Ta=25°C)	200	mW
T_{j}	Junction temperature	+150	လူ
T_{stg}	Storage temperature	-55 ~ +150	လ



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 =-1mA, I _B =0mA	-25	_	-	V
$V_{(BR)CBO}$	C to B break down voltage	I_{c} =-100 μ A, I_{E} =0mA	-40	_	-	V
$V_{(BR)EBO}$	E to B break down voltage	I_{E} =-100 μ A, I_{C} =0mA	-6	-	-	٧
I _{CBO}	Collector cut off current	V_{CB} =-40V, I_E =0mA	_	_	-0.1	μΑ
I _{EBO}	Emitter cut off current	V_{EB} =-6V, I $_{C}$ =0mA	-	_	-0.1	μΑ
h _{FE1}	DC forward current gain1	V_{CE} =-1V, I $_{C}$ =-5mA	45	-	-	-
h _{FE2}	DC forward current gain2	V_{CE} =-1V, I $_{C}$ =-100mA	85	-	300	_
h _{FE3}	DC forward current gain3	V_{CE} =-1V, I $_{C}$ =-800mA	40	-	-	_
$V_{\text{CE(sat)}}$	C to E saturation voltage	I_{c} =-800mA, I_{B} =-80mA	-	-0.28	-0.5	٧
V _{BE(sat)}	B to E saturation voltage	I _c =-800mA, I _B =-80mA	-	-0.98	-1.2	٧
f _T	Gain bandwidth product	V _{CE} =-10V, I _E =50mA, f=100MHz	100	270	-	MHz
Cob	Collector output capacitance	V _{CB} =-10V, f=100MHz	-	10	-	pF



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