

INA6001AC1

FOR HIGH CURRENT DRIVE APPLICATION
SILICON PNP EPITAXIAL TYPE

DESCRIPTION

INA6001AC1 is a silicon PNP epitaxial type transistor.
It is designed with high collector current and small $V_{CE(sat)}$.

FEATURE

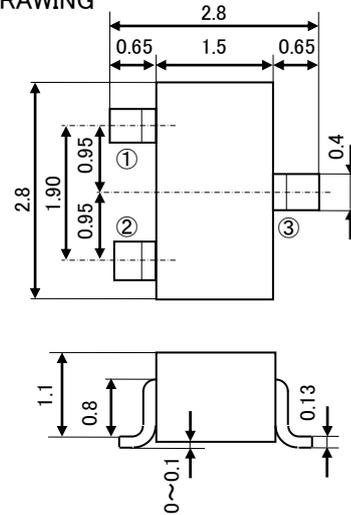
- Super mini package for easy mounting
- High collector current ($I_C = -1A$)
- Low collector saturation voltage
($V_{CE(sat)} < -0.5V_{max}$; $I_C = -500mA$, $I_B = -50mA$)

APPLICATION

For switching, Small type motor drive

OUTLINE DRAWING

UNIT : mm



Terminal Connector

JEITA:SC-59

①: Base

JEDEC: Similar to TO-236

②: Emitter

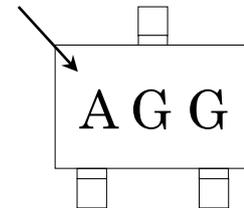
③: Collector

MAXIMUM RATING ($T_a = 25^\circ C$)

SYMBOL	PARAMETER	RATING	UNIT
V_{CBO}	Collector to Base voltage	-120	V
V_{EBO}	Emitter to Base voltage	-6	V
V_{CEO}	Collector to Emitter voltage	-100	V
I_C	Collector current	-1	A
P_C	Collector dissipation ($T_a = 25^\circ C$)	200	mW
T_j	Junction temperature	+150	$^\circ C$
T_{stg}	Storage temperature	-55 ~ +150	$^\circ C$

MARKING

Type Name



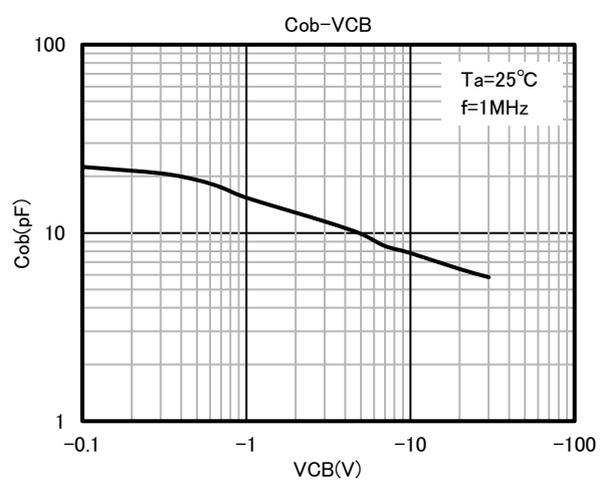
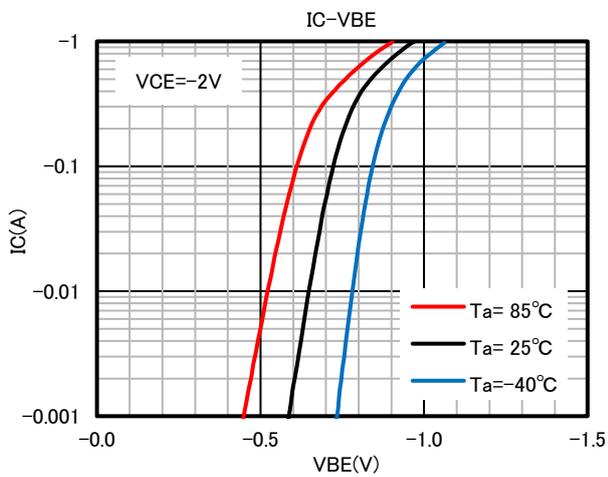
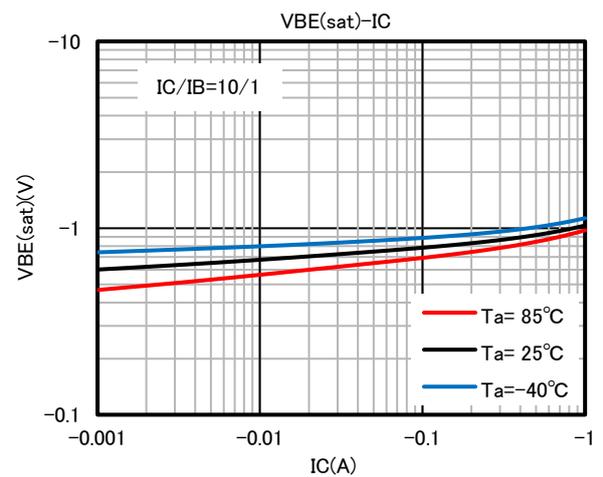
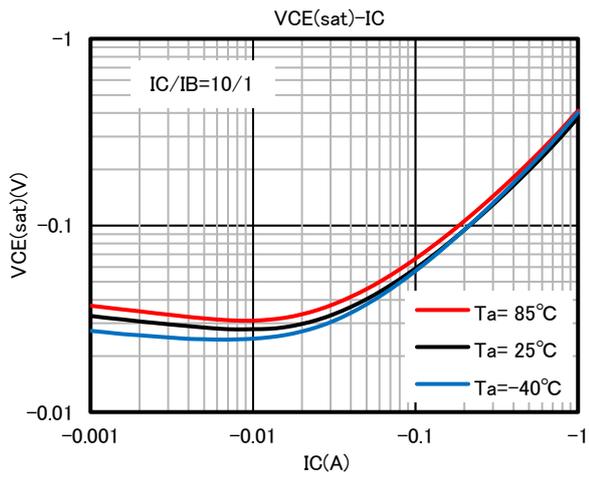
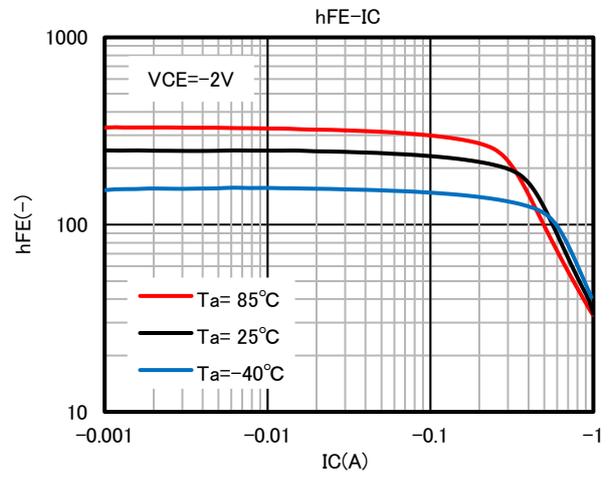
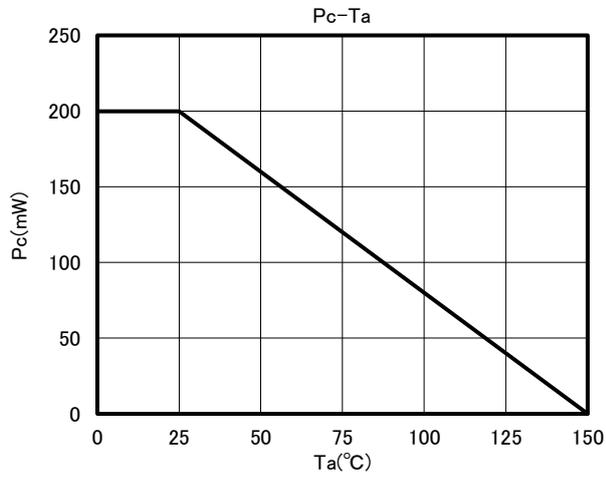
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
$V_{(BR)CBO}$	C to B breakdown voltage	$I_C = -100 \mu A$, $I_E = 0mA$	-120	-	-	V
$V_{(BR)EBO}$	E to B breakdown voltage	$I_E = -100 \mu A$, $I_C = 0mA$	-6	-	-	V
$V_{(BR)CEO}$	C to E breakdown voltage	$I_C = -1mA$, $I_B = 0mA$	-100	-	-	V
I_{CBO}	Collector cut off current	$V_{CB} = -120V$, $I_E = 0mA$	-	-	-0.5	μA
I_{EBO}	Emitter cut off current	$V_{EB} = -6V$, $I_C = 0mA$	-	-	-0.5	μA
h_{FE1}	DC forward current gain1	$V_{CE} = -2V$, $I_C = -150mA$	140	-	330	-
h_{FE2}	DC forward current gain2	$V_{CE} = -5V$, $I_C = -1A$	40	-	-	-
$V_{CE(sat)}$	C to E saturation voltage	$I_C = -500mA$, $I_B = -50mA$	-	-	-0.5	V
$V_{BE(sat)}$	B to E saturation voltage	$I_C = -500mA$, $I_B = -50mA$	-	-	-1.1	V
f_T	Gain bandwidth product	$V_{CE} = -5V$, $I_E = 50mA$, $f = 100MHz$	100	-	-	MHz
Cob	Collector output capacitance	$V_{CB} = -10V$, $f = 1MHz$	-	-	10	pF

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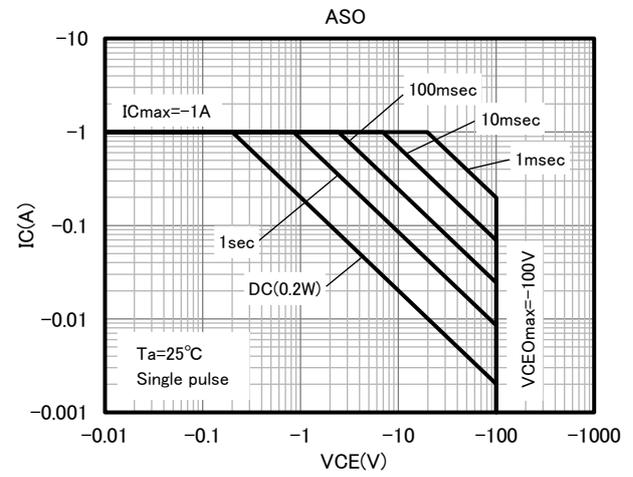
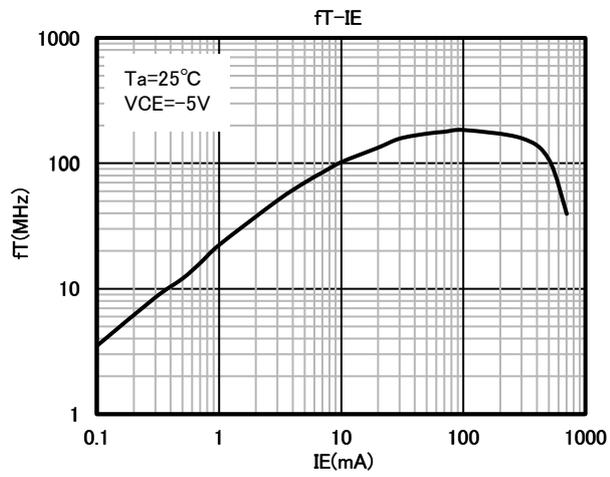
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TYPICAL CHARACTERISTICS



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