# INA6001AP1

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE

## DESCRIPTION

INA6001AP1 is a silicon PNP transistor. It is designed with high voltage.

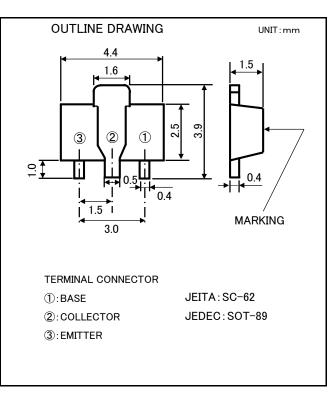
## FEATURE

•Small package for easy mounting.

- •High voltage  $V_{CEO} = -100V$
- •High collector current Ic=-1A
- •Low voltage VCE(sat) = -0.5V(MAX)

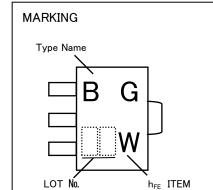
### APPLICATION

Relay drive, Power supply



## MAXIMUM RATING(Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT
V <sub>CBO</sub>	Collector to Base voltage	-120	V
V <sub>EBO</sub>	Emitter to Base voltage	-6	
V <sub>CEO</sub>	Collector to Emitter voltage	-100	V
Ιc	Collector current	-1	А
Pc	Collector dissipation(Ta=25°C)	500	mW
Tj	Junction temperature	+150	°C
T <sub>stg</sub>	Storage temperature	-55~+150	°C



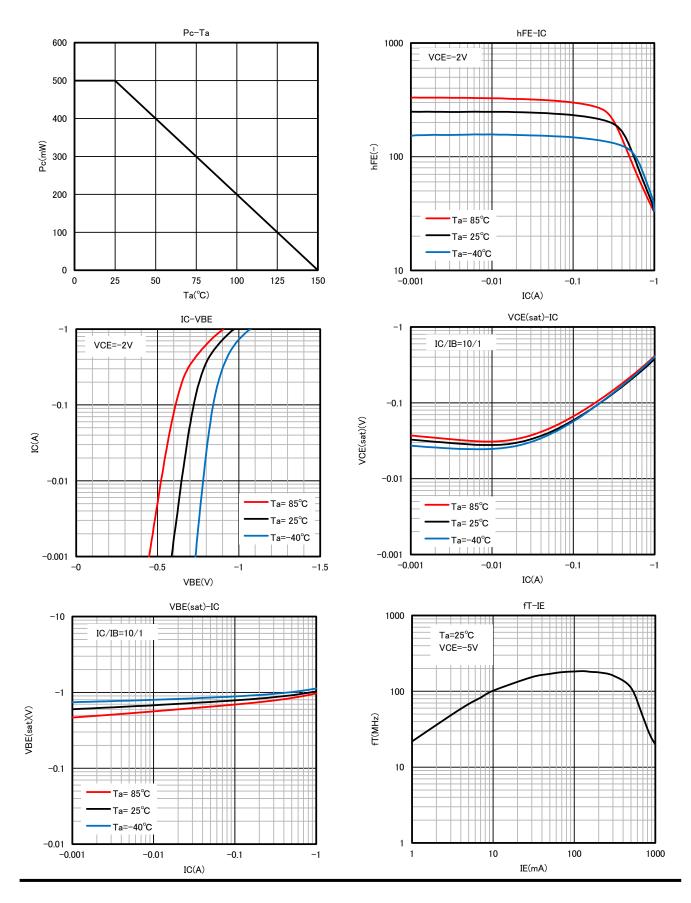
## ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
V <sub>(BR)CBO</sub>	C to B breakdown voltage	I <sub>c</sub> =−100 μ A, I <sub>E</sub> =0mA	-120	-	-	V
V <sub>(BR)EBO</sub>	E to B breakdown voltage	$I_{E}=-100 \mu A, I_{C}=0mA$	-6	-	-	V
V <sub>(BR)CEO</sub>	C to E breakdown voltage	$I_{c}=-1mA, R_{BE}=\infty$	-100	-	-	V
I <sub>CBO</sub>	Collector cut off current	V <sub>CB</sub> =-120V, I <sub>E</sub> =0mA	-	-	-0.5	μA
$I_{EBO}$	Emitter cut off current	V <sub>EB</sub> =-6V, I <sub>C</sub> =0mA	-	-	-0.5	μA
hFE	DC forward current gain	V <sub>CE</sub> =-2V, I <sub>C</sub> =-150mA	140	-	330	-
$V_{\text{CE}(\text{sat})}$	C to E saturation voltage	I <sub>c</sub> =-500mA, I <sub>B</sub> =-50mA	-	-	-0.5	V
$V_{BE(sat)}$	B to E saturation voltage	I <sub>c</sub> =-500mA, I <sub>B</sub> =-50mA	-	-	-1.1	V
fT	Gain bandwidth product	V <sub>CE</sub> =-5V, I <sub>E</sub> =50mA	100	-	-	MHz
Cob	Collector output capacitance	$V_{CB}$ =-10V, I <sub>E</sub> =0mA, f=1MHz	-	-	10	pF

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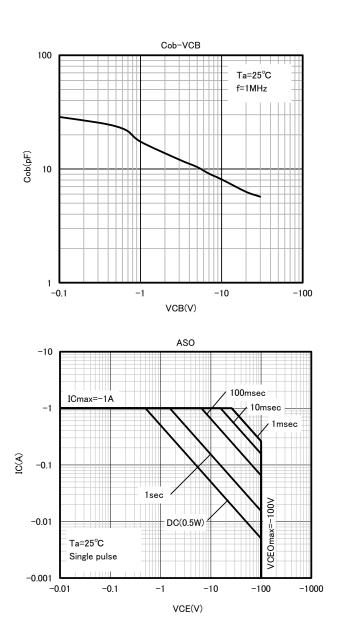
#### TYPCAL CHARACTERISTICS

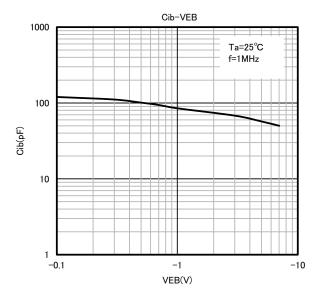


ISAHAYA ELECTRONICS CORPORATION

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