# INA5001AP1

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE

### **DESCRIPTION**

INA5001AP1 is a super mini package resin sealed silicon PNP epitaxial transistor,

It is designed for relay draive or Power supply application.

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### **FEATURE**

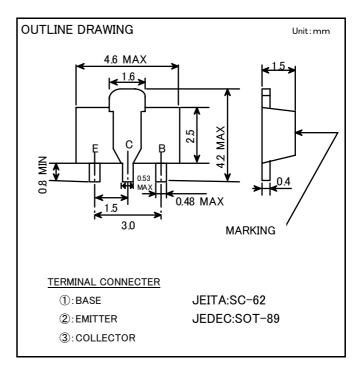
- Super mini package for easy mounting
- Low VCE(sat) V<sub>CE(sat)</sub>=-0.5 V max(@Ic=-500mA/IB=-50mA)
- High collector current Ic=-1A
- High voltage VcEo=-50V

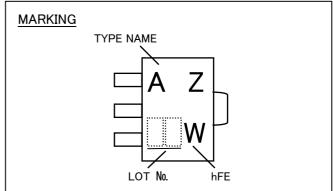
## **APPLICATION**

Relay drive, Power supply for audio equipment, VTR, etc

## MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Parameter Ratings	
V <sub>CBO</sub>	Collector to Base voltage	٧	
V <sub>EBO</sub>	Emitter to Base voltage	-5	٧
V <sub>CEO</sub>	Collector to Emitter voltage	-50	٧
<b>I</b> c	Collector current -1		Α
Ісм	Peak collector current -2		Α
Pc	Collector dissipation 500		mW
Tj	Junction temperature	+150	°C
$T_{stg}$	Storage temperature	-55 <b>~</b> +150	°C





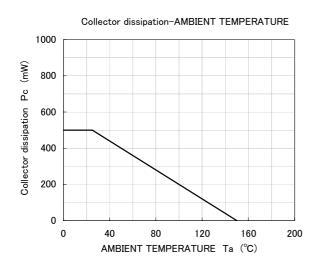
## ELECTRICAL CHARACTERISTICS (Ta=25°C)

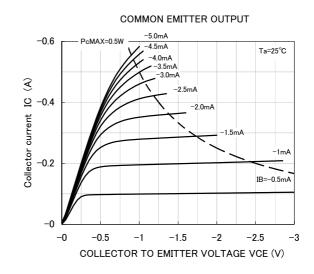
Parameter	Symbol	Test conditions	Limits			Unit
Parameter			Min	Тур	Max	Unit
C to B break down voltage	V(BR)cво	$I_{C}=-10 \mu A, I_{E}=0 mA$	-50			٧
E to B break down voltage	V(BR) <sub>EBO</sub>	$I_{E}=-10 \mu A, I_{C}=0 mA$	-5			٧
C to E break down voltage	V(BR)ceo	I <sub>C</sub> =-1mA, R <sub>BE</sub> =∞	-50			٧
Collector cut off current	Ісво	$V_{CB}$ =-50V, I $_{E}$ =0mA			-0.1	μΑ
Emitter cut off current	<b>I</b> EBO	V <sub>EB</sub> =-5V, I c=0mA			-0.1	μΑ
DC forward current gain	hFE	Vc=-4V, Ic=-0.1A	160		380	-
C to E Saturation Voltage	V <sub>CE(sat)</sub>	Ic=-500mA, I <sub>B</sub> =-50mA			-0.5	٧
Gain bandwidth product	fT	Vce=-2V, Ie=500mA		120		MHz
Collector output capacitance	Cob	V <sub>CB</sub> =-10V, I <sub>E</sub> =0mA, f=1MHz		12		pF

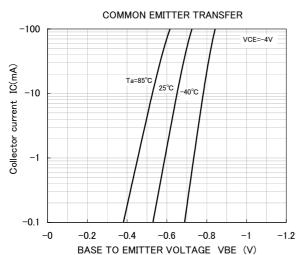
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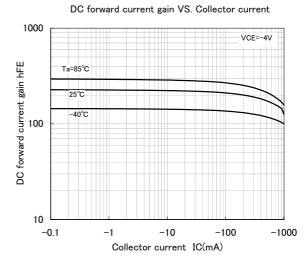
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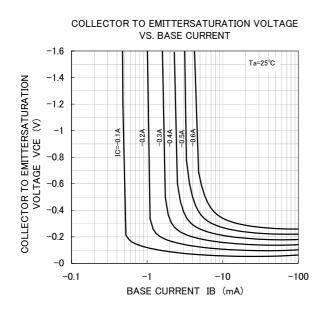
### TYPICIAL CHARACTERISTICS

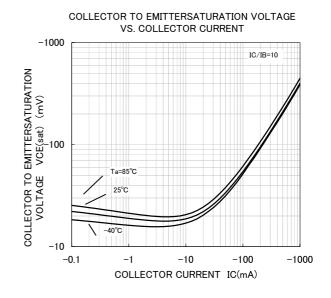






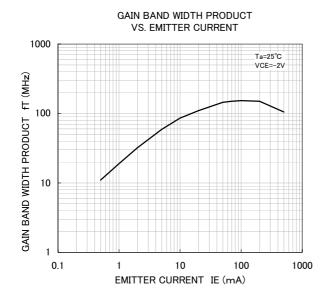


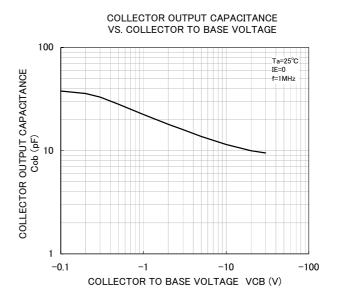


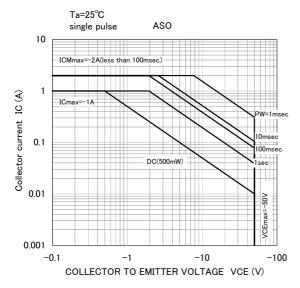


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