# 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 drive or Power supply application.

## **FEATURE**

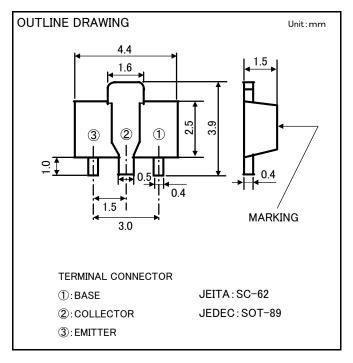
- Super mini package for easy mounting
- ●High voltage VCEO=-50V
- High collector current IC=-1A
- Low VCE(sat) VCE(sat)=-0.5Vmax(@IC=-500mA/IB=-50mA)
- High collector dissipation PC=500mW

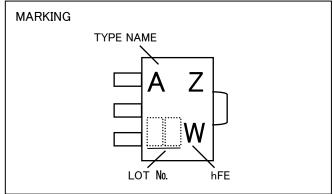
## **APPLICATION**

Relay drive, Power supply for audio equipment, VTR

## MAXIMUM RATINGS (Ta=25°C)

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





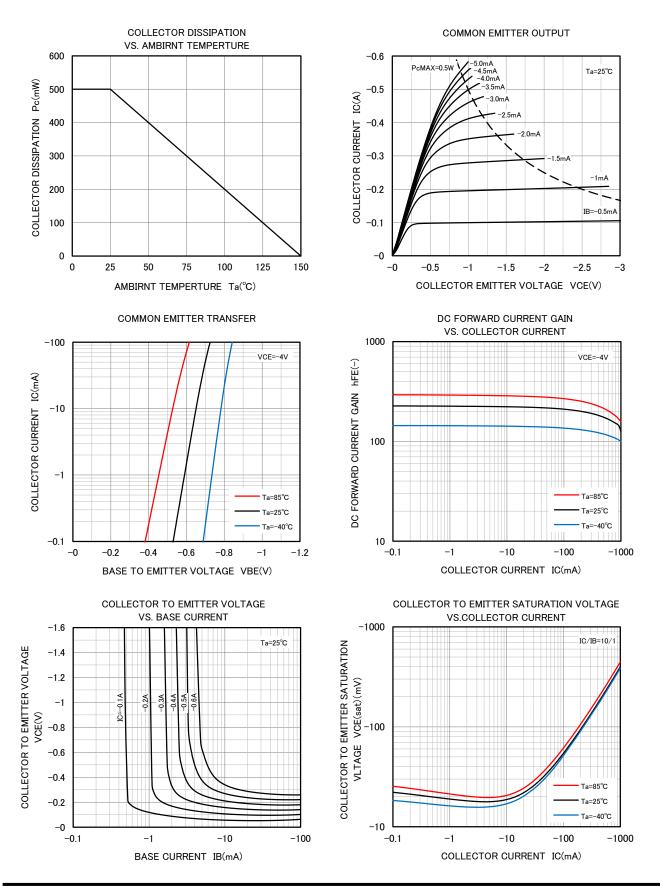
# ELECTRICAL CHARACTERISTICS(Ta=25°C)

Symbol	Parameter	Test conditions	Limits			11
			Min	Тур	Max	Unit
V <sub>(BR)CBO</sub>	C to B breakdown voltage	I <sub>C</sub> =-10 μ A, I <sub>E</sub> =0mA	-50	-	-	V
$V_{(BR)EBO}$	E to B breakdown voltage	$I_E=-10 \mu A, I_C=0mA$	-5	1	-	V
$V_{(BR)CEO}$	C to E breakdown voltage	$I_{C}$ =-1mA, $R_{BE}$ = $\infty$	-50	ı	ı	V
$I_{CBO}$	Collector cut off current	$V_{CB}$ =-50V, $I_{E}$ =0mA	-	-	-0.1	μΑ
$\mathbf{I}_{EBO}$	Emitter cut off current	V <sub>EB</sub> =-5V, Ic=0mA	-	1	-0.1	μΑ
h <sub>FE</sub>	DC forward current gain	Vc=-4V, Ic=-0.1A	160	1	380	_
V <sub>CE(sat)</sub>	C to E Saturation voltage	Ic=-500mA, I <sub>B</sub> =-50mA	-	-	-0.5	V
f <sub>T</sub>	Gain bandwidth product	Vc==-2V, I==500mA	-	120	-	MHz
Cob	Collector output capacitance	VcB=-10V, IE=0mA, f=1MHz	-	12	-	pF

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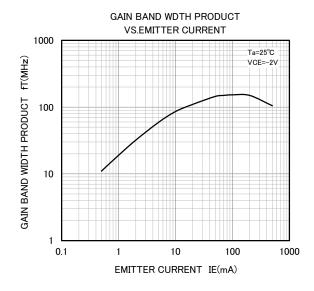
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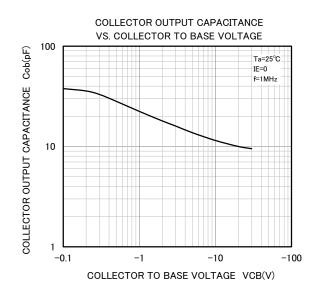
### TYPICIAL CHARACTERISTICS

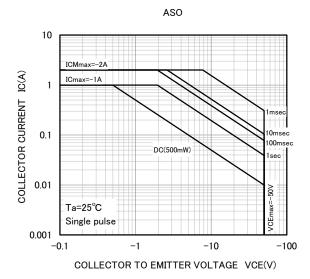


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