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.

.

FEATURE

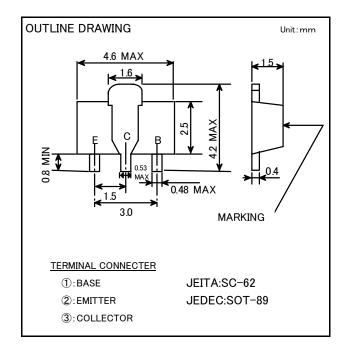
- Super mini package for easy mounting
- $\bullet \text{Low VCE(sat)} \ V_{\text{CE(sat)}} = -0.5 \ \text{V} \ \text{max} (@Ic = -500 \text{mA}/IB = -50 \text{mA})$
- High collector current Ic=-1A
- High voltage VcEo=-50V

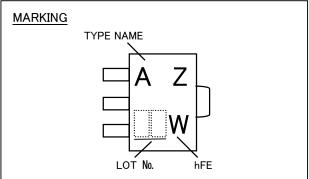
APPLICATION

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

MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter Ratings		
V _{CBO}	Collector to Base voltage	-50	٧
V _{EBO}	Emitter to Base voltage	-5	٧
V _{CEO}	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 _{stg}	Storage temperature	-55 ~ +150	°C





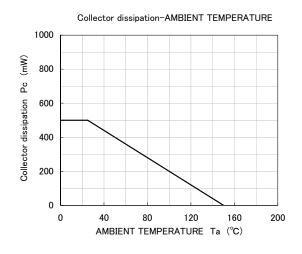
ELECTRICAL CHARACTERISTICS(Ta=25°C)

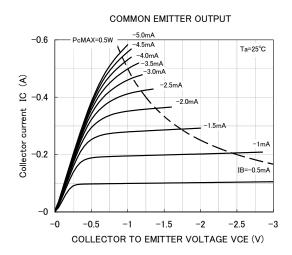
Parameter	Symbol	Test conditions	Limits			Unit
Parameter			Min	Тур	Max	Unit
C to B break down voltage	V(BR)cso	$I_{C}=-10 \mu A, I_{E}=0 mA$	-50			٧
E to B break down voltage	V(BR) _{EBO}	$I_{E}=-10 \mu A, I_{G}=0 mA$	-5			٧
C to E break down voltage	V(BR)ceo	I _C =-1mA, R _{BE} =∞	-50			٧
Collector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

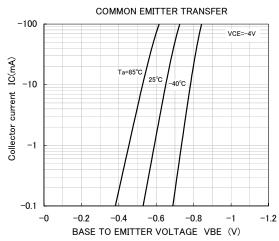
INA5001AP1

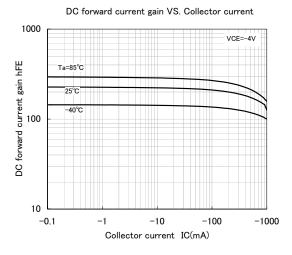
FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE

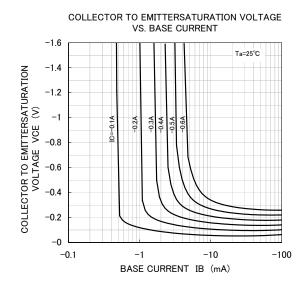
TYPICIAL CHARACTERISTICS

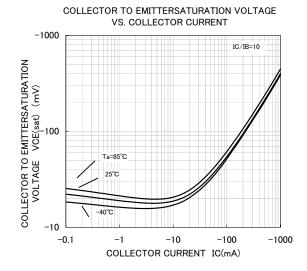






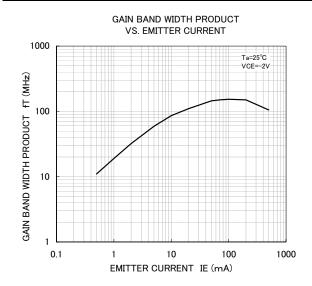


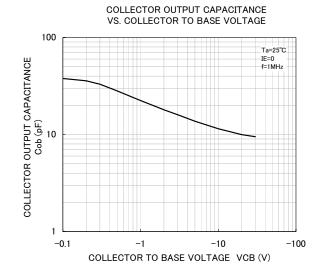


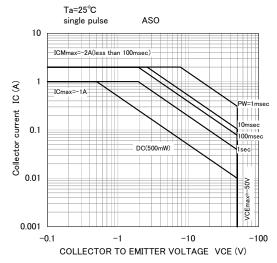


INA5001AP1

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE









Marketing division, Marketing planning department

6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

Keep safety first in your circuit designs!

•ISAHAYA Electronics Corporation puts the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them. Trouble with semiconductors may lead to personal injury, fire or property damage. Remember to give due consideration to safety when making your circuit designs, with appropriate measures such as (1) placement of substitutive, auxiliary, (2) use of non-farmable material or (3) prevention against any malfunction or mishap

- Notes regarding these materials

 These materials are intended as a reference to our customers in the selection of the ISAHAYA products best suited to the customer's application; they don't convey any license under any intellectual property rights, or any other rights, belonging ISAHAYA or third party.

 - ISAHAYA or third party.

 ISAHAYA Electronics Corporation assumes no responsibility for any damage, or infringement of any third party's rights, originating in the use of any product data, diagrams, charts or circuit application examples contained in these materials.

 All information contained in these materials, including product data, diagrams and charts, represent information on products at the time of publication of these materials, and are subject to change by ISAHAYA Electronics Corporation without notice due to product improvements or other reasons. It is therefore recommended that customers contact ISAHAYA Electronics Corporation or an authorized ISAHAYA products distributor for the latest product information before purchasing product listed
 - herein.
 -ISAHAYA Electronics Corporation products are not designed or manufactured for use in a device or system that is used under circumstances in which human life is potentially at stake. Please contact ISAHAYA electronics corporation or an authorized ISAHAYA products distributor when considering the use of a product contained herein for any specific purposes, such as apparatus or systems for transportation, vehicular, medical, aerospace, nuclear, or undersea repeater use.
 - The prior written approval of ISAHAYA Electronics Corporation is necessary to reprint or reproduce in whole or in part these
 - If these products or technologies are subject to the Japanese export control restrictions, they must be exported under a license from the Japanese government and cannot be imported into a country other than the approved destination. Any diversion or re-export contrary to the export control laws and regulations of Japan and/or the country of destination is
 - -Please contact ISAHAYA Electronics Corporation or authorized ISAHAYA products distributor for further details on these materials or the products contained therein.