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

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

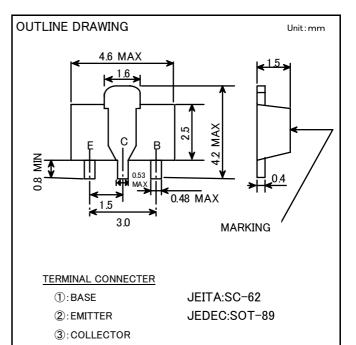
APPLICATION

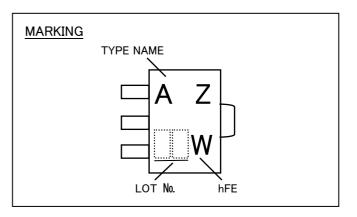
Relay drive, Power supply for audio equipment, VTR , etc

MAXIMUM RATINGS(Ta=25°C)

Symbol	Parameter	Ratings	Unit
V _{CBO}	Collector to Base voltage	-50	V
V _{EBO}	Emitter to Base voltage	-5	V
V _{CEO}	Collector to Emitter voltage	-50	V
Ic	Collector current	-1	А
Ісм	Peak collector current	-2	А
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
Farameter			Min	Тур	Max	Unit
C to B break down voltage	V(BR) _{CBO}	I _c =-10 μ A, I _e =0mA	-50			V
E to B break down voltage	V(BR) _{EBO}	$I_{E} = -10 \mu$ A, $I_{C} = 0$ mA	-5			V
C to E break down voltage	V(BR)CEO	I _c =−1mA, R _{BE} =∞	-50			٧
Collector cut off current	Ісво	V _{GB} =-50V, I _E =0mA			-0.1	μA
Emitter cut off current	Іево	V _{EB} =-5V, I c=0mA			-0.1	μA
DC forward current gain	hFE	Vce=-4V, Ic=-0.1A	160		380	-
C to E Saturation Voltage	$V_{\text{CE}(\text{sat})}$	Ic=-500mA, I _B =-50mA			-0.5	٧
Gain bandwidth product	fT	Vce=-2V, Ie=500mA		120		MHz
Collector output capacitance	Cob	V_{CB} =-10V, Ie=0mA, f=1MHz		12		pF

1.5m/

INA5001AP1

Ta=25°C

-1mA

-3

IB=-0.5mA

VCE=-4V

-25

-100

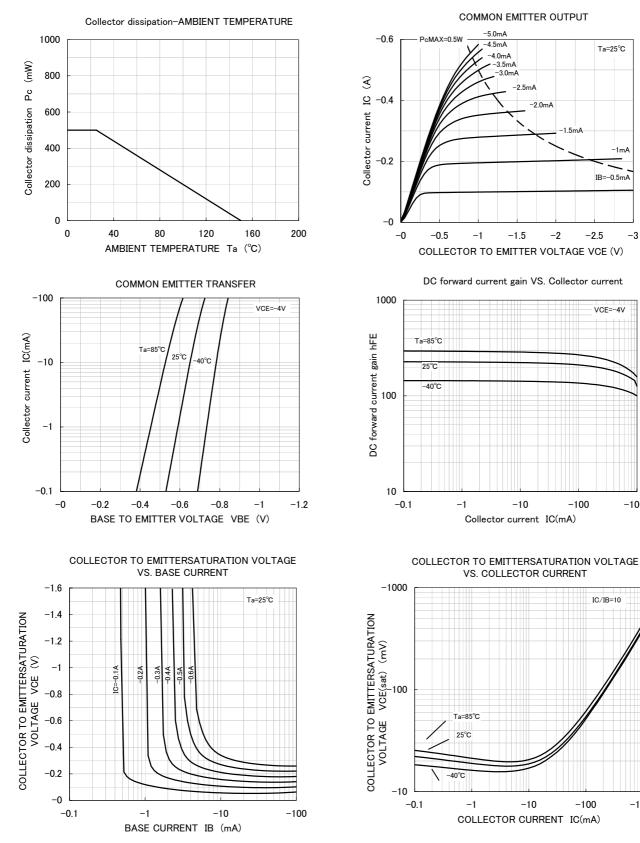
IC/IB=10

-100

-1000

-1000

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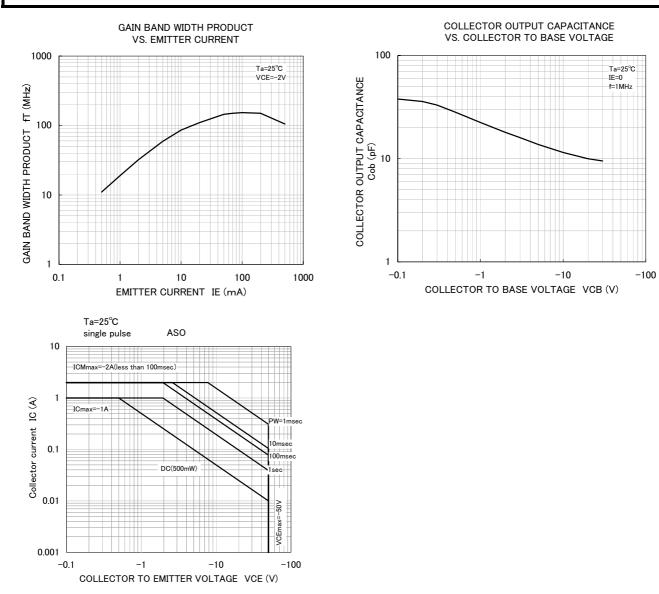


TYPICIAL CHARACTERISTICS

ISAHAYA ELECTRONICS CORPORATION

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ISAHAYA ELECTRONICS CORPORATION



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