INC5001AP1

For low frequency power amplify Silicon NPN Epitaxial

DESCRIPTION

INC5001AP1 is a silicon NPN epitaxial transistor designed for relay drive or Power supply application.

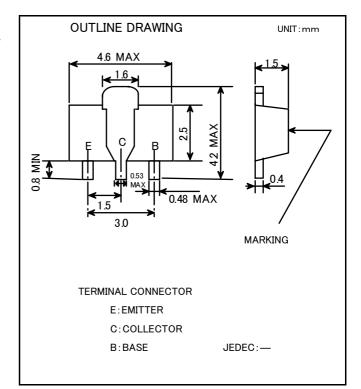
FEATURE

•Small package for easy mounting.

- ●High voltage VCEO=60V
- ●High collector current Ic=1A
- Low VCE(sat) VCE(sat)=0.25V max(@Ic=500mA/ Ib=50mA)
- ●High collector dissipation Pc=500mW

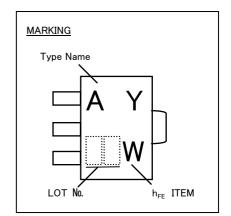
APPLICATION

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



MAXIMUM RATING(Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT	
V _{CBO}	Collector to Base voltage	80	V	
V _{EBO}	Emitter to Base voltage	5	V	
V _{CEO}	Collector to Emitter voltage 60		V	
I _c	Collector current	1	A	
I _{CM}	Peak Collector current	2		
Pc	Collector dissipation(Ta=25°C)	500	mW	
T _j	Junction temperature	+150	°C	
T _{stg}	Storage temperature	-55~+150	°C	



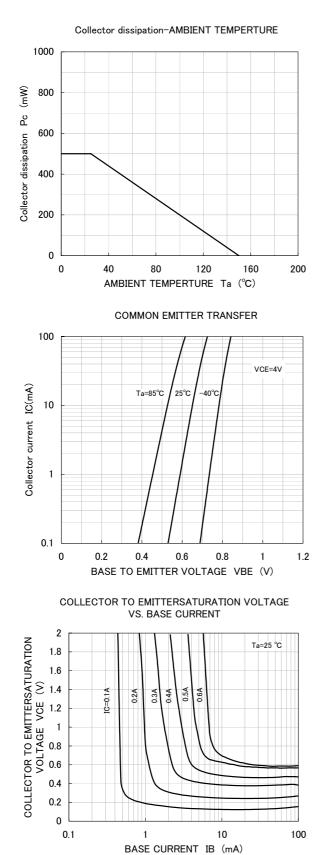
ELECTRICAL CHARACTERISTICS (Ta=25°C)

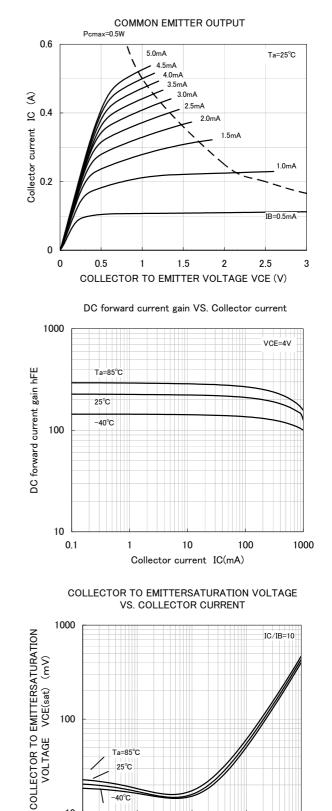
SYMBOL	PARAMETER	TEST CONDITIONS		LIMITS		
		TEST CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)CBO}	C to B break down voltage	I _c =10 μ A, I _E =0mA	80			V
V _{(BR)EBO}	E to B break down voltage	I _E =10 μ A, I _C =0mA	5			V
V _{(BR)CEO}	C to E break down voltage	I _c =1mA, R _{BE} =∞	60			V
I _{CBO}	Collector cut off current	V _{CB} =80V, I _E =0mA			0.1	μA
Іево	Emitter cut off current	V _{EB} =5V, I c=0mA			0.1	μA
hfe	DC forward current gain	Vce=4V, Ic=0.1A	130		320	-
V _{CE(sat)}	C to E saturation voltage	Ic=500mA, I _B =50mA			0.25	V
f⊤	Gain band width product	V _{CE} =10V, I _E =-50mA	150			MHz
Cob	Collector output capacitance	V _{CB} =10V, I _E =0mA, f=1MHz			10	pF

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TYPICIAL CHARACTERISTICS





40°C

1

10

COLLECTOR CURRENT IC(mA)

1000

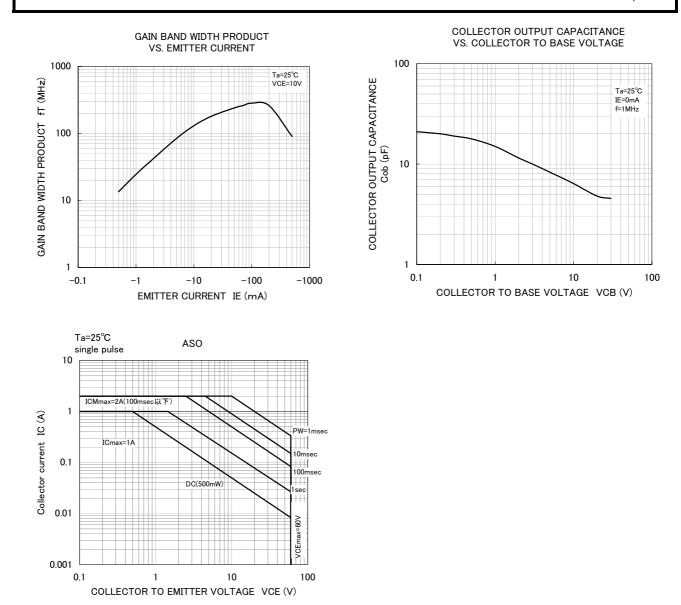
100

10 0.1

ISAHAYA ELECTRONICS CORPORATION

INC5001AP1

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Marketing division, Marketing planning department

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

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