INC5001AP1

For low frequency power amplify Silicon NPN Epitaxial

DESCRIPTION

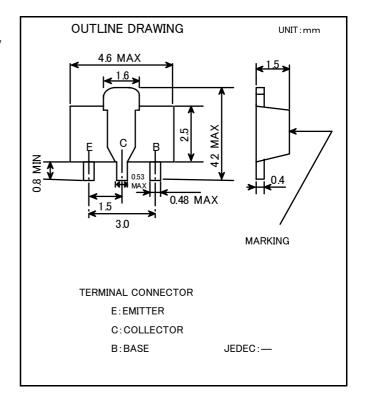
INC5001AP1 is a silicon NPN epitaxial transistor designed for relay drive or Power supply application.

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

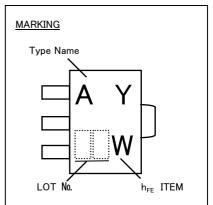
APPLICATION

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	٧	
V_{EBO}	Emitter to Base voltage	5	٧	
V _{CEO}	Collector to Emitter voltage	60	٧	
I c	Collector current	1	Α	
I _{CM}	Peak Collector current	2		
P _c	Collector dissipation(Ta=25°C)	500	mW	
T _j	Junction temperature	+150	°C	
T_{stg}	Storage temperature	-55 ~ +150	°C	



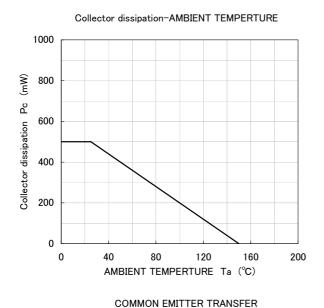
ELECTRICAL CHARACTERISTICS (Ta=25°C)

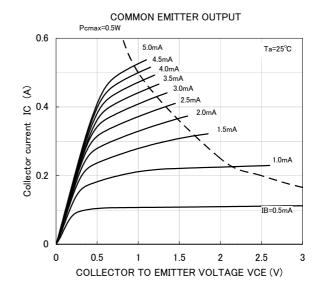
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			LINIT
			MIN	TYP	MAX	UNIT
V _{(BR)CBO}	C to B break down voltage	I _c =10 μ A, I _E =0mA	80			٧
V _{(BR)EBO}	E to B break down voltage	$I_{E}=10 \mu A, I_{C}=0mA$	5			٧
V _{(BR)CEO}	C to E break down voltage	I _C =1mA, R _{BE} =∞	60			٧
I _{CBO}	Collector cut off current	V _{CB} =80V, I _E =0mA			0.1	μΑ
І ЕВО	Emitter cut off current	V _{EB} =5V, I c=0mA			0.1	μΑ
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	٧
fτ	Gain band width product	VcE=10V, IE=-50mA	150			MHz
Cob	Collector output capacitance	VcB=10V, IE=0mA, f=1MHz			10	pF

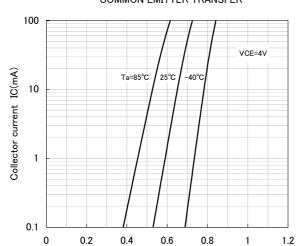
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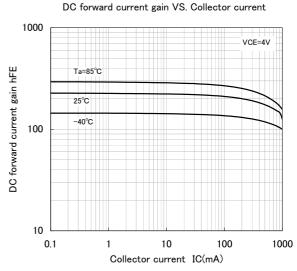
TYPICIAL CHARACTERISTICS

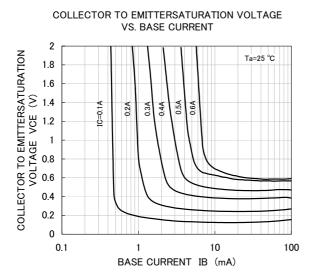


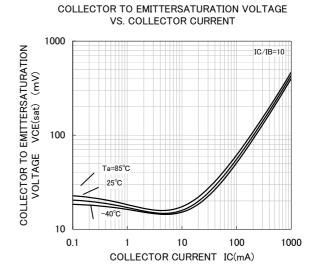




BASE TO EMITTER VOLTAGE VBE (V)

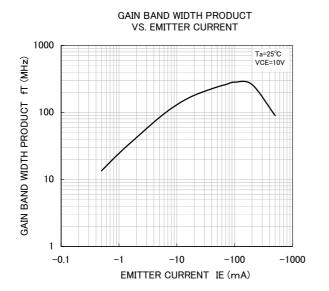


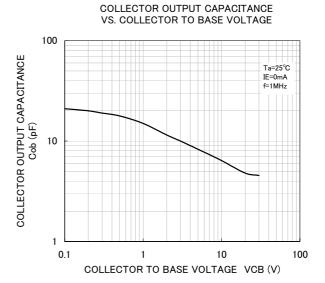


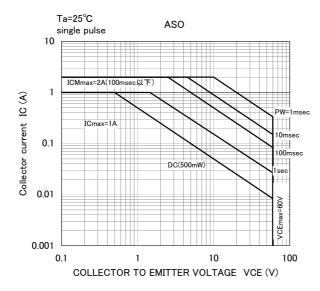


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