TENTATIVE

This is not a final specification.

Some parameters are subject to change.

(SMALL-SIGNAL TRANSISTOR)

č

3

INC6001AC1

Unit:mm

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE (mini type)

2.5

1.5 0.5

0.5

0~0.1

JEITA: SC-59

TERMINAL CONNECTER

BASE
EMITTER
COLLECTOR

5

0.95

2.9 1.90

OUTLINE DRAWING

DESCRIPTION

INC6001AC1 is a super mini package resin sealed

silicon NPN epitaxial transistor,

It is designed for low frequency voltage application.

FEATURE

- •Super mini package for easy mounting
- \blacksquare Small collector to emitter saturation voltage $V_{\text{CE(sat)}}{=}0.5V$
- High collector current Ic=1A
- ●High voltage Vceo=100V

APPLICATION

For DC/DC converter , power supply etc.

MAXIMUM RATINGS(Ta=25°C)

Symbol	Parameter	Ratings	Unit	
V _{CBO}	Collector to Base voltage	120	V	
V _{EBO}	Emitter to Base voltage	6	V	
V _{CEO}	Collector to Emitter voltage	100	V	
Ic	Collector current	1	Α	
Pc	Collector dissipation	200	mW	
Tj	Junction temperature	+150	°C	
Tstg	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) _{CBO}	$I_c=10 \mu$ A , $I_e=0$	120	-	-	V
E to B break down voltage	V(BR) _{EBO}	$I_{\rm E}$ =10 μ A , $I_{\rm C}$ =0	6	-	-	V
C to E break down voltage	V(BR) _{CEO}	I _c =1mA ,R _{BE} =∞	100	-	-	V
Collector cut off current	Ісво	V _{CB} =120V, I _E =0mA	-	-	500	nA
Emitter cut off current	Іево	V _{EB} =6V, I _C =0mA	-	-	500	nA
DC forward current gain	hFE	V _{CE} =2V, I _C =150mA	100	-	300	
C to E Saturation Voltage	$V_{CE(sat)}$	I _c =500mA ,I _B =50mA	-	-	0.5	V
Gain bandwidth product	fT	V _{CE} =10V, I _E =-50mA	-	270	-	MHz
Collector output capacitance	Cob	V _{CB} =10V, I _E =0mA,f=1MHz	-	5	-	pF

TENTATIVE

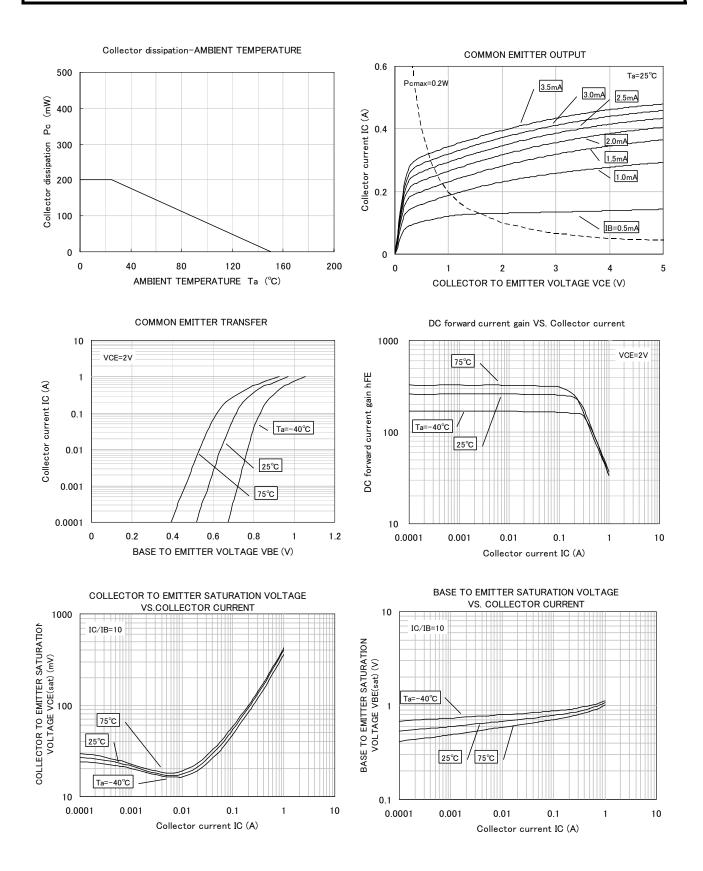
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(SMALL-SIGNAL TRANSISTOR)

INC6001AC1

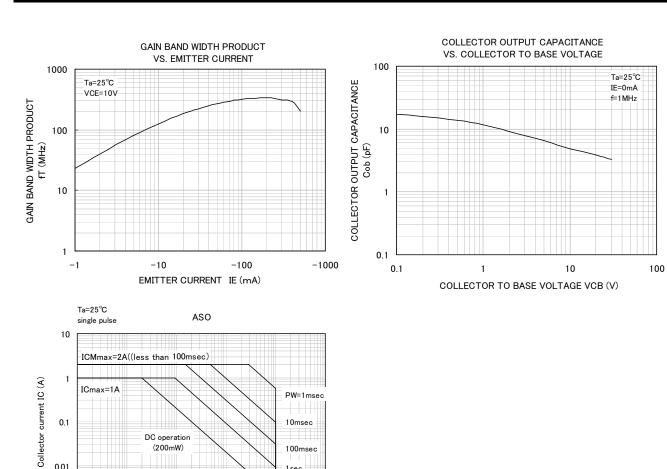
FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE (mini type)



ISAHAYA ELECTRONICS CORPORATION

INC6001AC1

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE (mini type)



100msec

VCEmax=100V

1000

1sec

100

TENTATIVE

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. (200mW)

1

COLLECTOR TO EMITTER VOLTAGE VCE (V)

10

0.1

0.01

0.001 0.01



Marketing division, Marketing planning department

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