INC6001AC1

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

INC6001AC1 is a super mini package resin sealed silicon NPN epitaxial transistor,

It is designed for low frequency voltage application.

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FEATURE

- Super mini package for easy mounting
- $\bullet \mathsf{Low} \ \mathsf{V}_{\mathsf{CE}(\mathsf{sat})} \quad \mathsf{V}_{\mathsf{CE}(\mathsf{sat})} \!\!=\!\! 0.5 \mathsf{V}_{\mathsf{max}} \ (@I_{\mathsf{C}} \!\!=\!\! 500 \mathsf{mA} / I_{\mathsf{B}} \!\!=\!\! 50 \mathsf{mA})$
- High collector current I_c=1A
- High voltage V_{CEO}=100V

APPLICATION

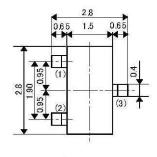
For DC/DC converter, power supply etc.

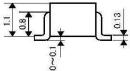
MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit	
V _{CBO}	Collector to Base voltage	120	٧	
V_{EBO}	Emitter to Base voltage	6	٧	
V _{CEO}	Collector to Emitter voltage	100	٧	
I _C	Collector current	1	Α	
I _{CM}	Collector dissipation	200	mW	
P _c	Junction temperature	+150	°C	
T _j	Storage temperature	-55 ~ +150	°C	

OUTLINE DRAWING

Unit:mm



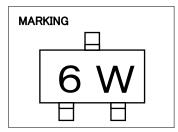


JEITA: SC-59

JEDEC: Similar to TO-236 TERMINAL CONNECTER

①:BASE ②:EMITTER

③:COLLECTOR



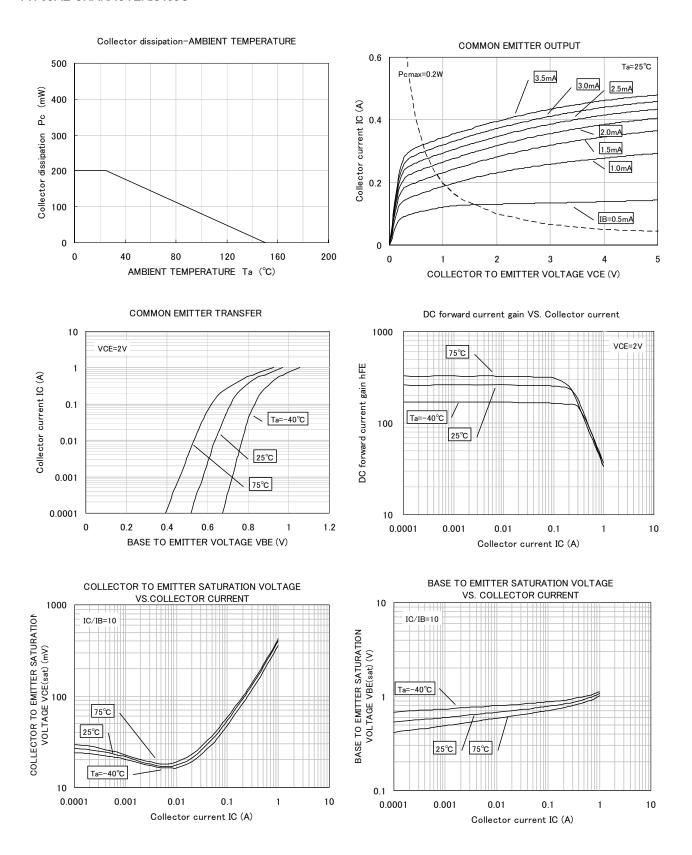
ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions		Limits		
			Min	Тур	Max	- Unit
V _{(BR)CBO}	C to B break down voltage	$I_{c}=10\mu A, I_{E}=0$	120	-	_	V
$V_{(BR)EBO}$	E to B break down voltage	$I_{E}=10\mu A, I_{C}=0$	6	_	_	V
V _{(BR)CEO}	C to E break down voltage	I _c =1mA, R _{BE} =∞	100	-	_	V
I _{CBO}	Collector cut off current	V _{CB} =120V, I _E =0mA	_	-	500	nA
I _{EBO}	Emitter cut off current	V_{EB} =6V, I_{C} =0mA	_	-	500	nA
h _{FE}	DC forward current gain	V _{CE} =2V, I _C =150mA	100	-	300	
V _{CE(sat)}	C to E Saturation Voltage	I _C =500mA, I _B =50mA	_	-	0.5	V
f _T	Gain bandwidth product	V _{CE} =10V, I _E =-50mA	_	270	_	MHz
C _{ob}	Collector output capacitance	V _{CB} =10V, I _E =0mA, f=1MHz	_	5	_	pF

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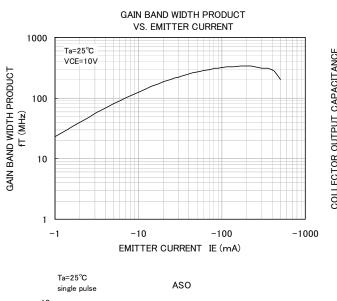
TYPICAL CHARACTERISTICS

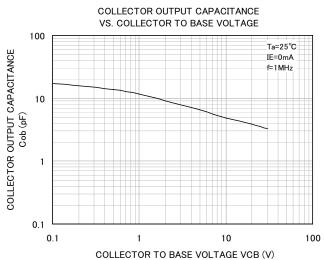


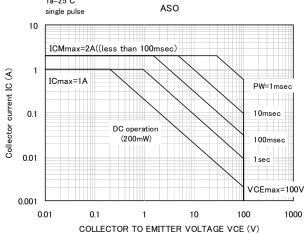
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TYPICAL CHARACTERISTICS









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