INC5001AC1

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

INC5001AC1 is a super mini package resin sealed silicon NPN epitaxial transistor.

It is designed for relay drive or Power supply application.

FEATURE

- Super mini package for easy mounting
- $\bullet \mathsf{Low} \; \mathsf{V}_{\mathsf{CE}(\mathsf{sat})} \quad \mathsf{V}_{\mathsf{CE}(\mathsf{sat})} = \mathsf{0.25V}_{\mathsf{max}} \; (@I_{\mathsf{C}} = \mathsf{500mA} / I_{\mathsf{B}} = \mathsf{50mA})$
- High collector current I_c=1A
- High voltage V_{CEO}=60V

APPLICATION

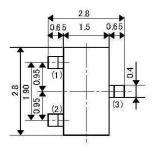
Relay drive, Power supply for audio equipment, VTR, etc

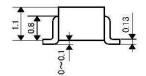
MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit	
V _{CBO}	Collector to Base voltage	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	Α	
P _c	Collector dissipation	200	mW	
T _j	Junction temperature	+150	°C	
T _{stg}	Storage temperature	-55 ~ +150	လူ	

OUTLINE DRAWING

Unit:mm





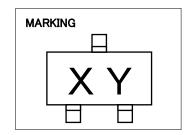
JEITA: SC-59

JEDEC: Similar to TO-236 TERMINAL CONNECTER

1:BASE

2:EMITTER

3: COLLECTOR



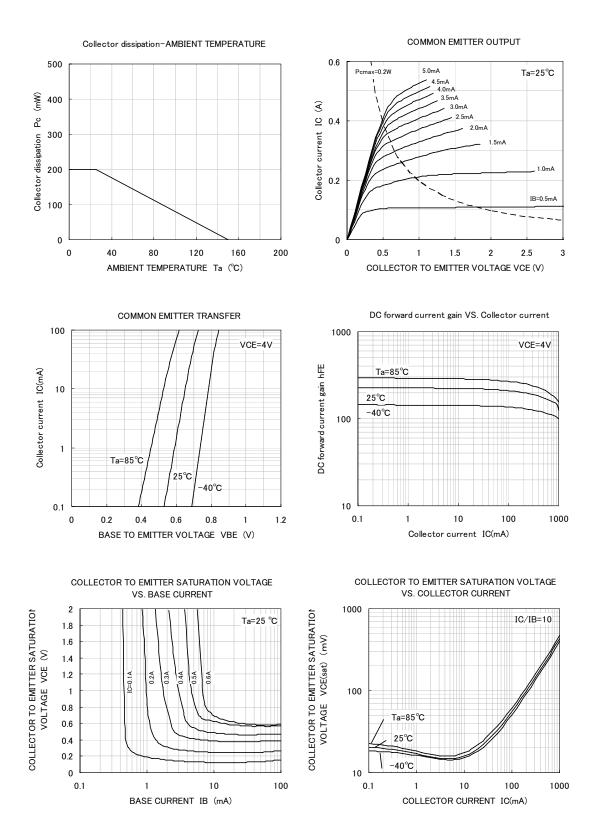
ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions		Limits		
			Min	Тур	Max	Unit
V _{(BR)CBO}	C to B break down voltage	$I_{c}=10\mu A, I_{E}=0$	80	-	-	V
V _{(BR)EBO}	E to B break down voltage	I _E =10μA, I _C =0	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	μA
I _{EBO}	Emitter cut off current	V_{EB} =5V, I_{C} =0mA	-	-	0.1	μA
h _{FE}	DC forward current gain	V_{CE} =4V, I_{C} =0.1A	130	-	320	
V _{CE(sat)}	C to E Saturation Voltage	I _C =500mA, I _B =50mA	-	-	0.25	V
f_T	Gain bandwidth product	V _{CE} =10V, I _E =-50mA	-	240	_	MHz
C _{ob}	Collector output capacitance	V _{CB} =10V, I _F =0mA, f=1MHz	_	_	10	pF

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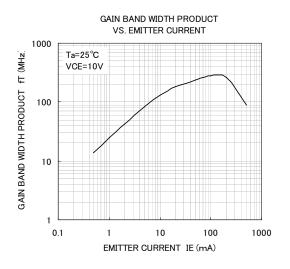
TYPICAL CHARACTERISTICS

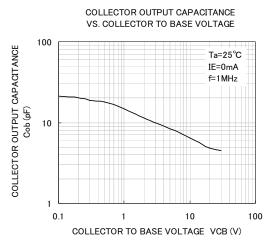


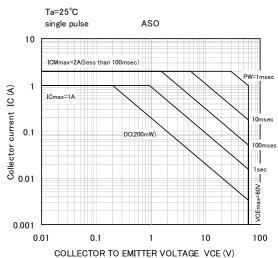
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TYPICAL CHARACTERISTICS









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