

INA5001AC1

FOR LOW FREQUENCY AMPLIFY APPLICATION
SILICON PNP EPITAXIAL TYPE

DESCRIPTION

INA5001AC1 is a super mini package resin sealed silicon PNP epitaxial transistor. It is designed for relay drive or Power supply application.

FEATURE

- Super mini package for easy mounting
- Low $V_{CE(sat)}$ $V_{CE(sat)} = -0.5V_{max}$ ($I_C = -500mA / I_B = -50mA$)
- High collector current $I_C = -1A$
- High voltage $V_{CEO} = -50V$

APPLICATION

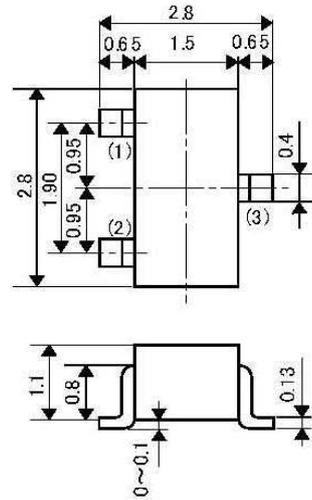
Relay drive, Power supply for audio equipment, VTR, etc

MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
V_{CBO}	Collector to Base voltage	-50	V
V_{EBO}	Emitter to Base voltage	-5	V
V_{CEO}	Collector to Emitter voltage	-50	V
I_C	Collector current	-1	A
I_{CM}	Peak collector current	-2	A
P_C	Collector dissipation	200	mW
T_j	Junction temperature	+150	°C
T_{stg}	Storage temperature	-55 ~ +150	°C

OUTLINE DRAWING

Unit:mm



JEITA: SC-59

JEDEC: Similar to TO-236

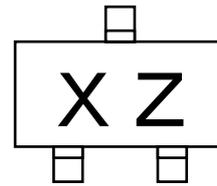
TERMINAL CONNECTER

①: BASE

②: EMITTER

③: COLLECTOR

MARKING



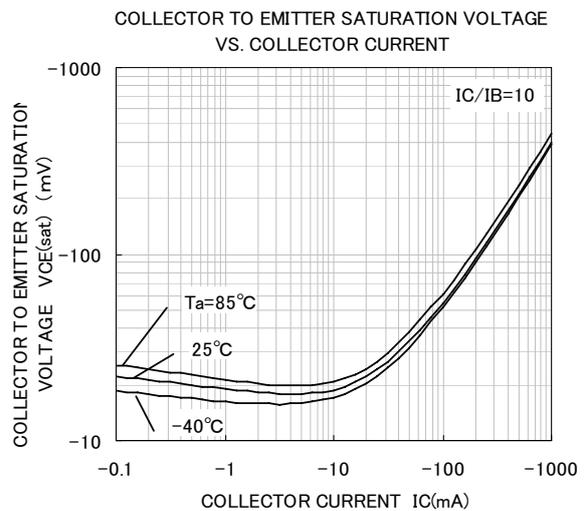
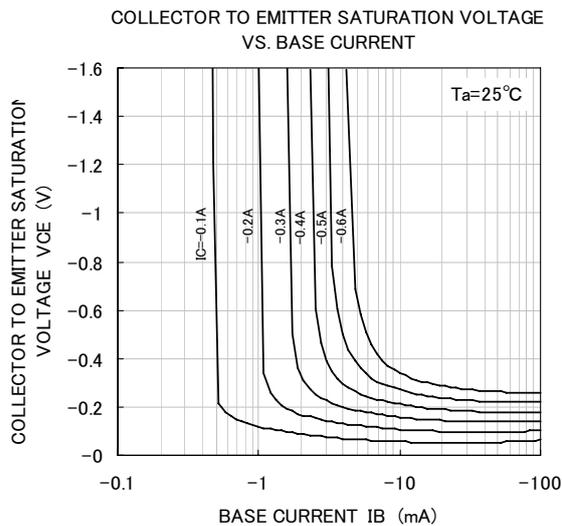
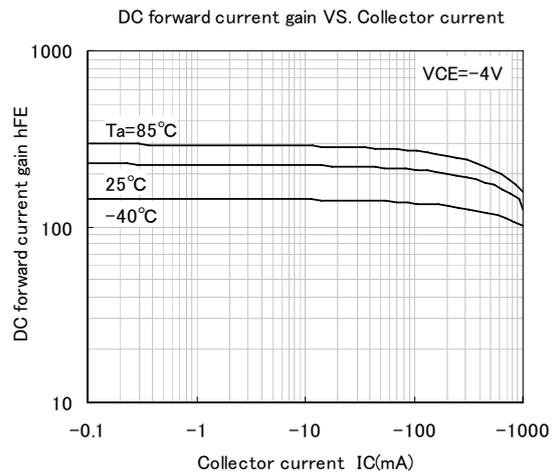
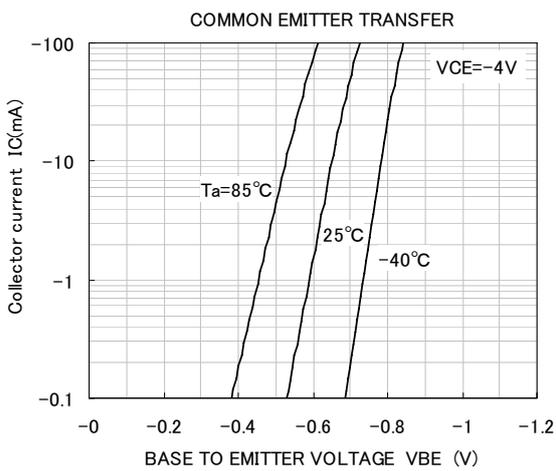
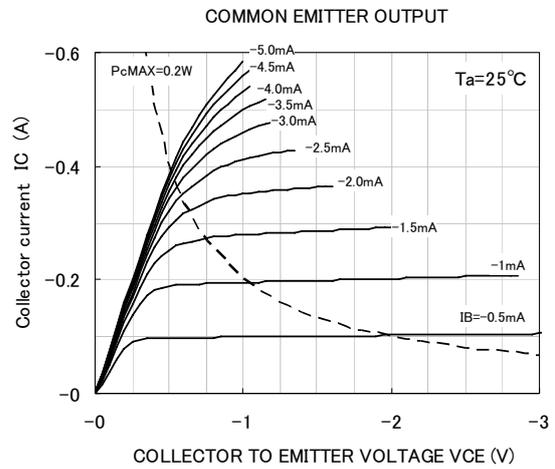
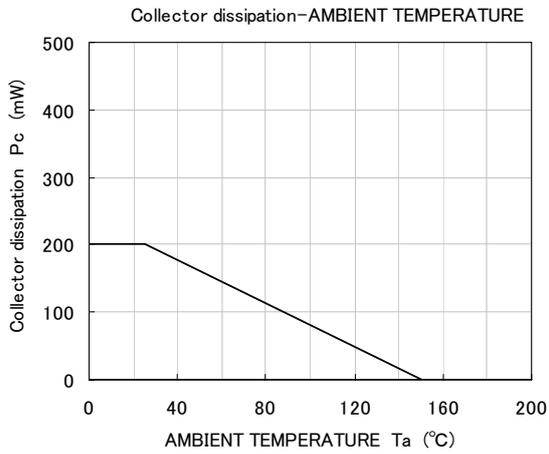
ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
$V_{(BR)CBO}$	C to B break down voltage	$I_C = -10\mu A, I_E = 0$	-50	-	-	V
$V_{(BR)EBO}$	E to B break down voltage	$I_E = -10\mu A, I_C = 0$	-5	-	-	V
$V_{(BR)CEO}$	C to E break down voltage	$I_C = -1mA, R_{BE} = \infty$	-50	-	-	V
I_{CBO}	Collector cut off current	$V_{CB} = -50V, I_E = 0mA$	-	-	-0.1	μA
I_{EBO}	Emitter cut off current	$V_{EB} = -5V, I_C = 0mA$	-	-	-0.1	μA
h_{FE}	DC forward current gain	$V_{CE} = -4V, I_C = -0.1A$	160	-	380	
$V_{CE(sat)}$	C to E Saturation Voltage	$I_C = -500mA, I_B = -50mA$	-	-	-0.5	V
f_T	Gain bandwidth product	$V_{CE} = -2V, I_E = 500mA$	-	120	-	MHz
C_{ob}	Collector output capacitance	$V_{CB} = -10V, I_E = 0mA, f = 1MHz$	-	12	-	pF

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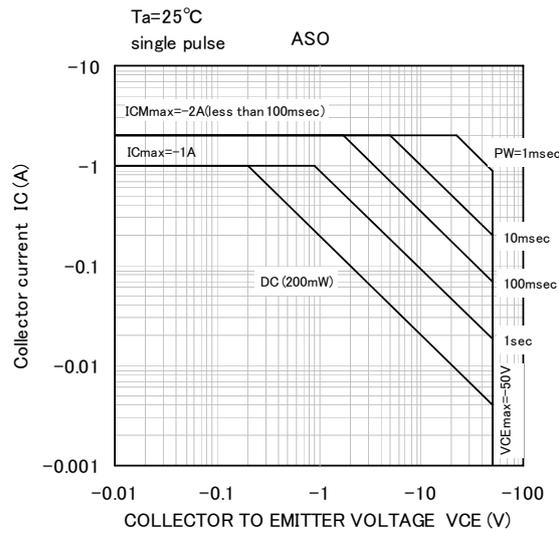
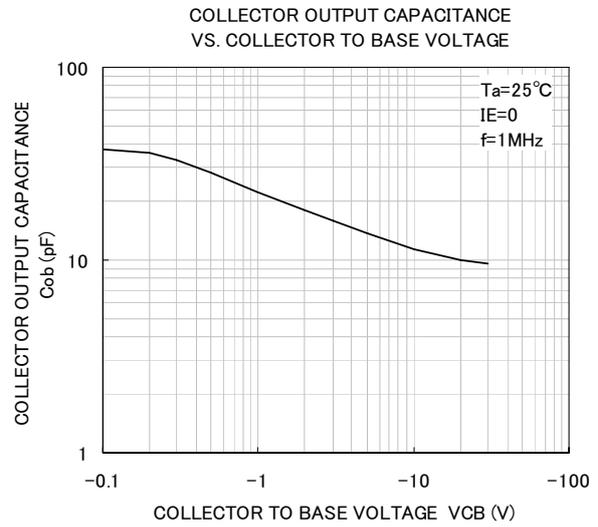
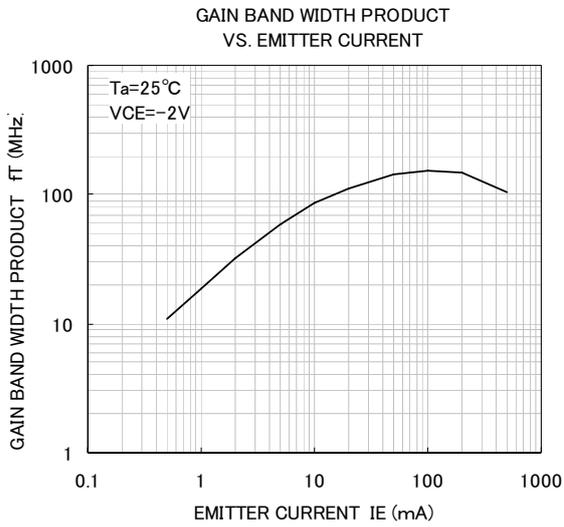
TYPICAL CHARACTERISTICS



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TYPICAL CHARACTERISTICS





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