

INA6001AP1-T150

FOR LOW FREQUENCY AMPLIFY APPLICATION
SILICON PNP EPITAXIAL TYPE

AEC-Q101 Compliance

DESCRIPTION

INA6001AP1 is a silicon PNP transistor.

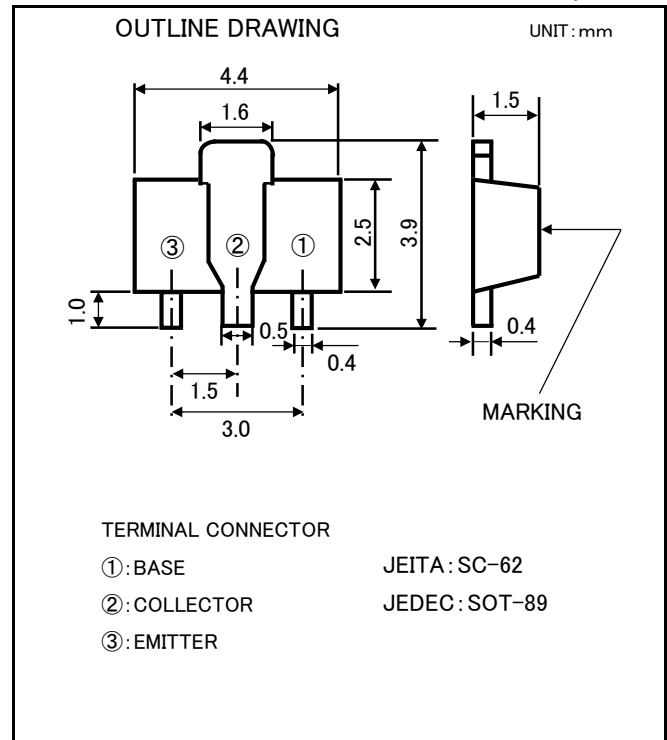
It is designed with high voltage.

FEATURE

- Small package for easy mounting.
- High voltage $V_{CEO} = -100V$
- High collector current $I_C = -1A$
- Low voltage $V_{CE(sat)} = -0.5V(MAX)$

APPLICATION

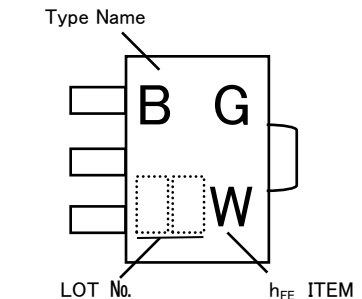
Relay drive, Power supply



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING	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
I_C	Collector current	-1	A
P_C	Collector dissipation(Ta=25°C)	500	mW
T_j	Junction temperature	+150	°C
T_{stg}	Storage temperature	-55~+150	°C

MARKING



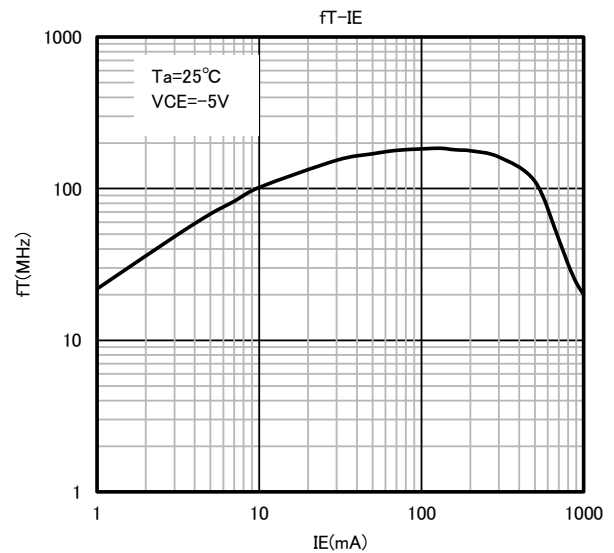
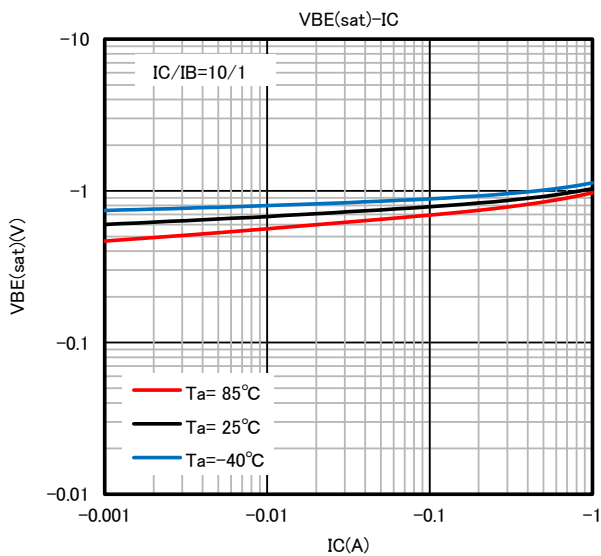
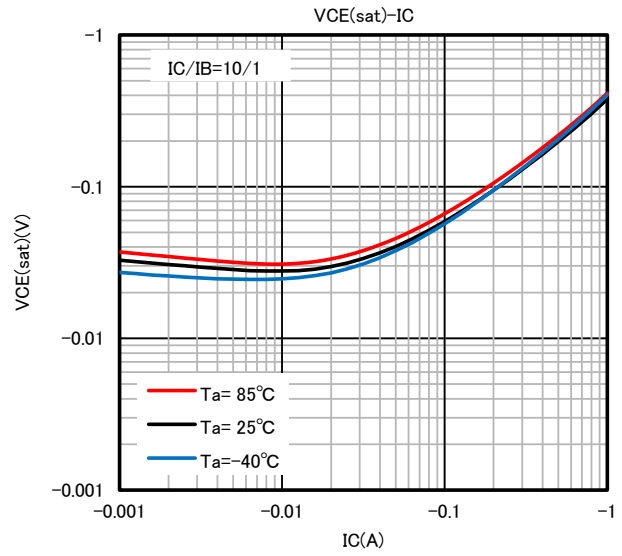
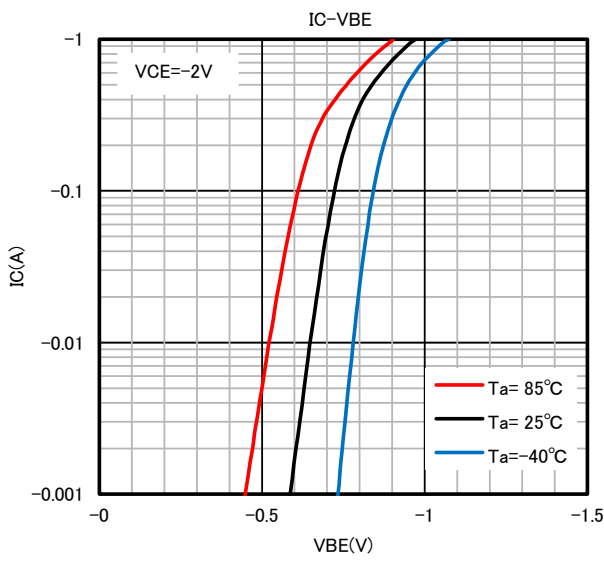
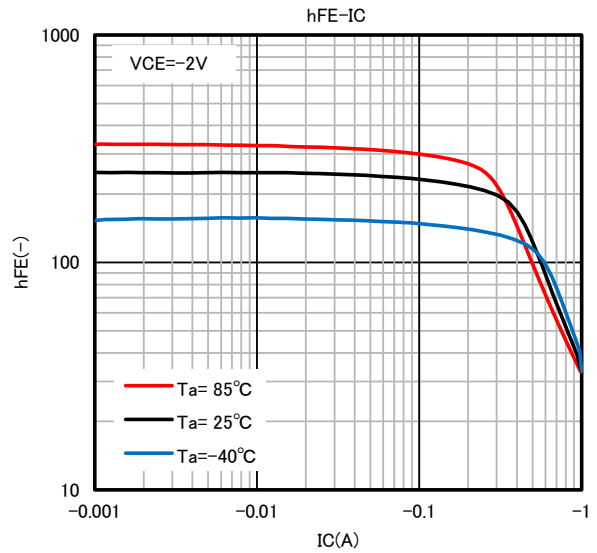
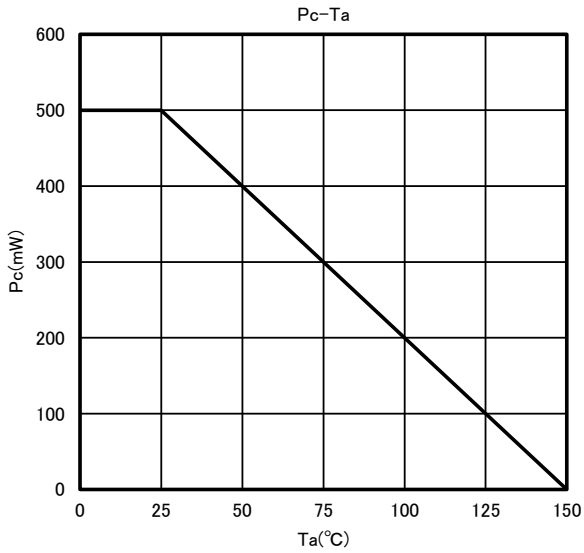
ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
$V_{(BR)CBO}$	C to B breakdown voltage	$I_C = -100 \mu A, I_E = 0mA$	-120	-	-	V
$V_{(BR)EBO}$	E to B breakdown voltage	$I_E = -100 \mu A, I_C = 0mA$	-6	-	-	V
$V_{(BR)CEO}$	C to E breakdown voltage	$I_C = -1mA, R_{BE} = \infty$	-100	-	-	V
I_{CBO}	Collector cut off current	$V_{CB} = -120V, I_E = 0mA$	-	-	-0.5	μA
I_{EBO}	Emitter cut off current	$V_{EB} = -6V, I_C = 0mA$	-	-	-0.5	μA
hFE	DC forward current gain	$V_{CE} = -2V, I_C = -150mA$	140	-	330	-
$V_{CE(sat)}$	C to E saturation voltage	$I_C = -500mA, I_B = -50mA$	-	-	-0.5	V
$V_{BE(sat)}$	B to E saturation voltage	$I_C = -500mA, I_B = -50mA$	-	-	-1.1	V
fT	Gain bandwidth product	$V_{CE} = -5V, I_E = 50mA$	100	-	-	MHz
Cob	Collector output capacitance	$V_{CB} = -10V, I_E = 0mA, f = 1MHz$	-	-	10	pF

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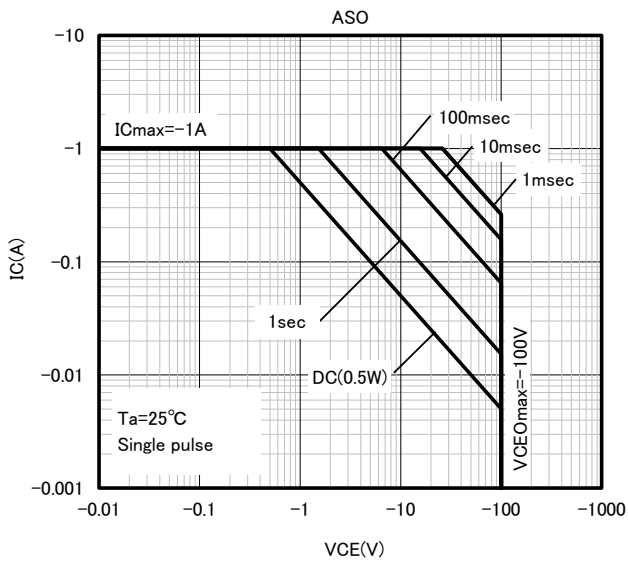
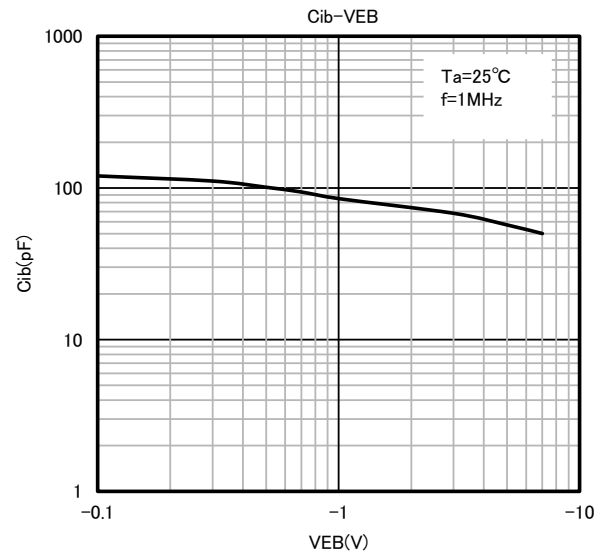
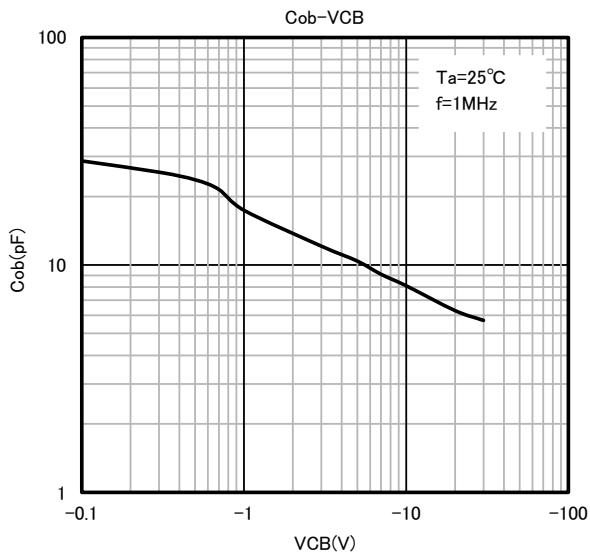
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TYPICAL CHARACTERISTICS



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