

**PRELIMINARY**

Notice: This is not a final specification  
Some parametric are subject to change.

**INA6001AP1**

FOR LOW FREQUENCY AMPLIFY APPLICATION  
SILICON PNP EPITAXIAL TYPE

**DESCRIPTION**

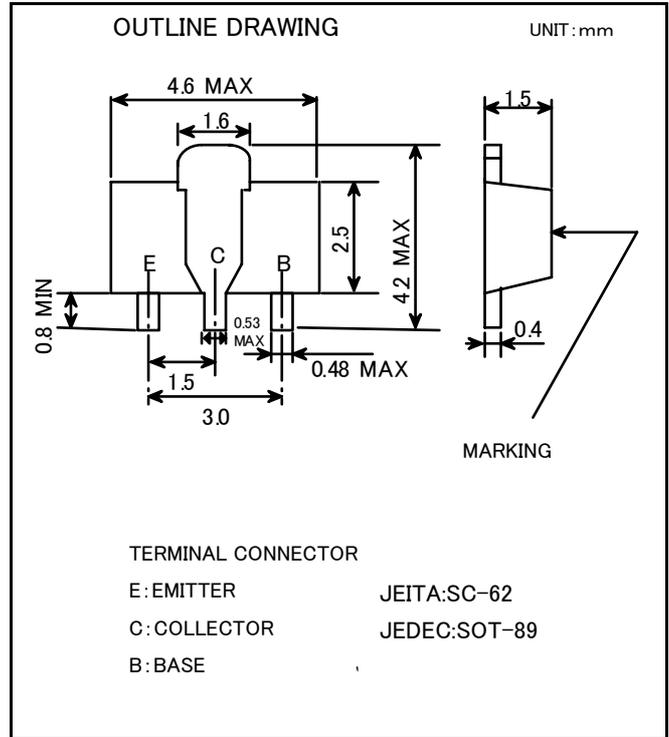
INA6001AP1 is a silicon PNP transistor.  
It is designed with high voltage.

**FEATURE**

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

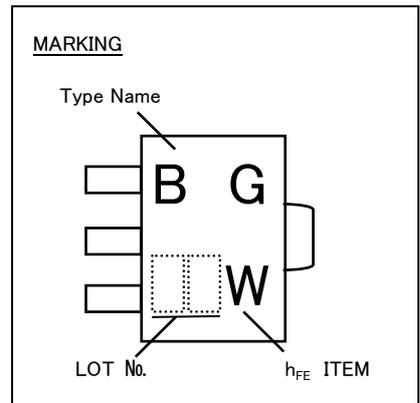
**APPLICATION**

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



**ELECTRICAL CHARACTERISTICS (Ta=25°C)**

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
$V_{(BR)CBO}$	C to B break down voltage	$I_C = -100 \mu A, I_E = 0mA$	-120	-	-	V
$V_{(BR)EBO}$	E to B break down voltage	$I_E = -100 \mu A, I_C = 0mA$	-6	-	-	V
$V_{(BR)CEO}$	C to E break down voltage	$I_C = -10mA, R_{BE} = \infty$	-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
hFE1	DC forward current gain1	$V_{CE} = -2V, I_C = -150mA$	140	-	330	-
hFE2	DC forward current gain2	$V_{CE} = -5V, I_C = -1A$	40	-	-	-
$V_{CE(sat)}$	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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**Keep safety first in your circuit designs!**

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