PRELIMINARY

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

INC6020AP1

low frequency power amplification
Silicon NPN Epitaxial

DESCRIPTION

INC6020AP1 is a Resin-sealed silicon NPN epitaxial transistor.
It is installed with high withstand voltage.
It can be widely used for miniaturization of sets and high-density mounting.

FEATURE

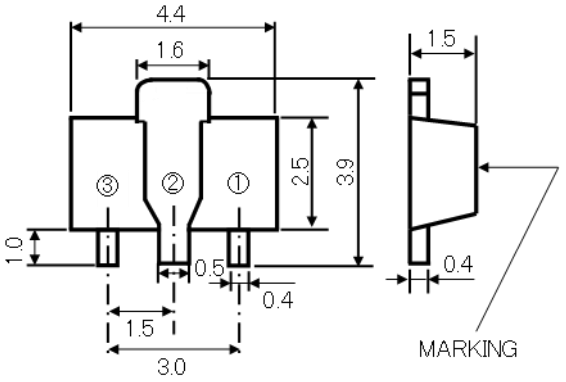
・Due to the small outer shape, the set can be made smaller and mounted at high density.
・High withstand voltage VCEO = 450V

APPLICATION

・DC/DC converter, high voltage switching

OUTLINE DRAWING

UNIT : mm



TERMINAL CONNECTER

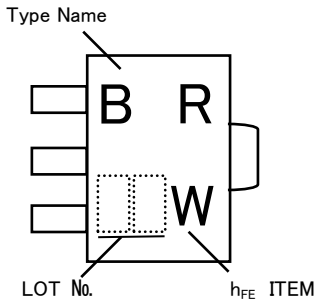
① : BASE
② : COLLECTOR
③ : EMITTER

JEITA : SC-62
JEDEC : SOT-89

MAXIMUM RATING (Ta=25℃)

SYMBOL	PARAMETER	RATING	UNIT
V_{CBO}	Collector to Base voltage	500	V
V_{EBO}	Emitter to Base voltage	5	V
V_{CEO}	Collector to Emitter voltage	450	V
I_C	Collector current	0.15	A
P_C	Collector dissipation(Ta=25℃)	500	mW
T_j	Junction temperature	+150	℃
T_{stg}	Storage temperature	−55～+150	℃

MARKING



ELECTRICAL CHARACTERISTICS (Ta=25℃)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
$V_{(BR)CBO}$	C to B break down voltage	I_C=100μA, I_E=0mA	500	−	−	V
$V_{(BR)EBO}$	E to B break down voltage	I_E=10μA, I_C=0mA	5	−	−	V
$V_{(BR)CEO}$	C to E break down voltage	I_C=1mA, R_{BE}=∞	450	−	−	V
I_{CBO}	Collector cut off current	V_{CB}=500V, I_E=0mA	−	−	1.0	μA
I_{EBO}	Emitter cut off current	V_{EB}=5V, I_C=0mA	−	−	1.0	μA
h_{FE}	DC forward current gain	V_{CE}=10V, I_C=50mA	75	−	300	−
$V_{CE(sat)}$	C to E saturation voltage	I_C=50mA, I_B=10mA	−	−	0.7	V
Cob	Collector output capacitance	V_{CB}=10V, I_E=0mA, f=1MHz	−	3.2	−	pF

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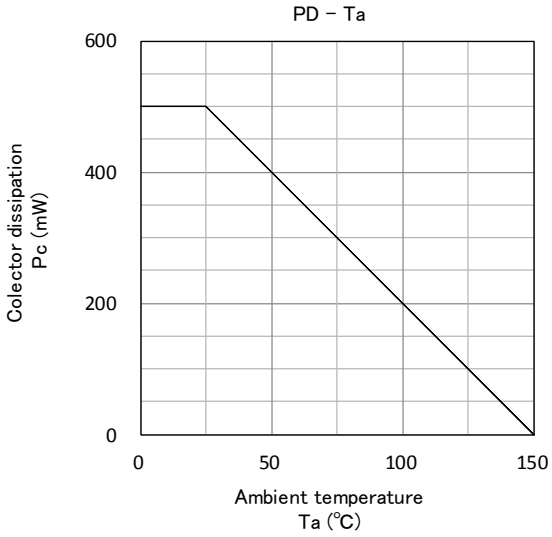
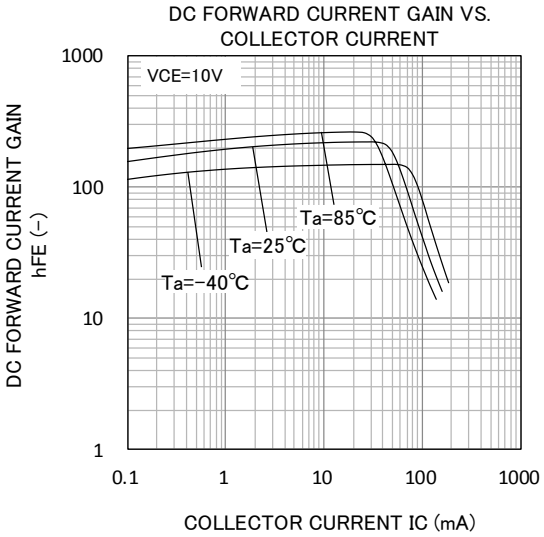
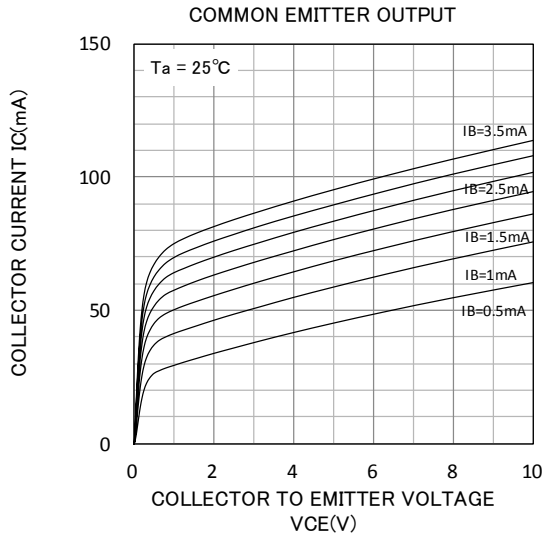
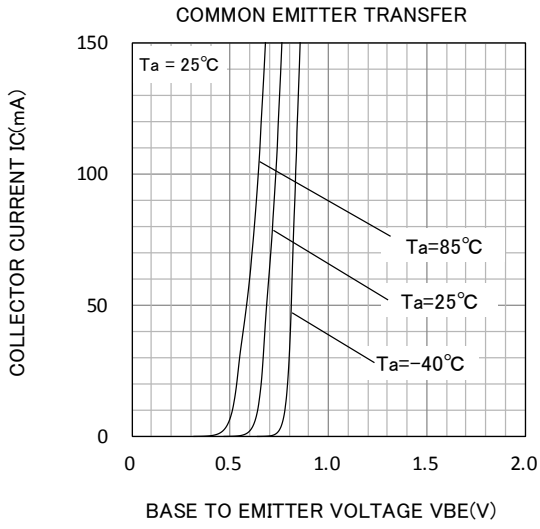
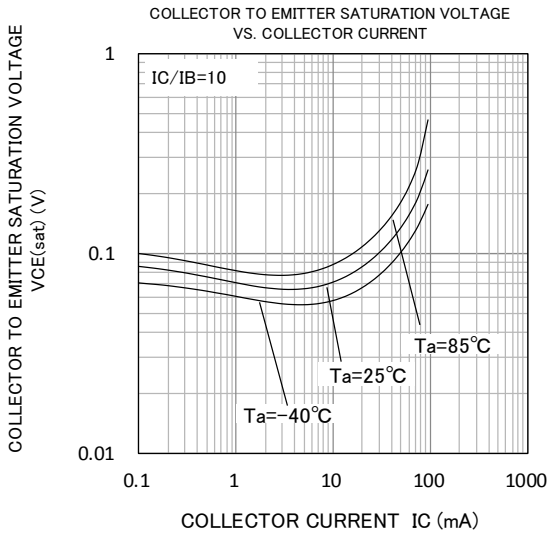
TYPICAL CHARACTERISTICS

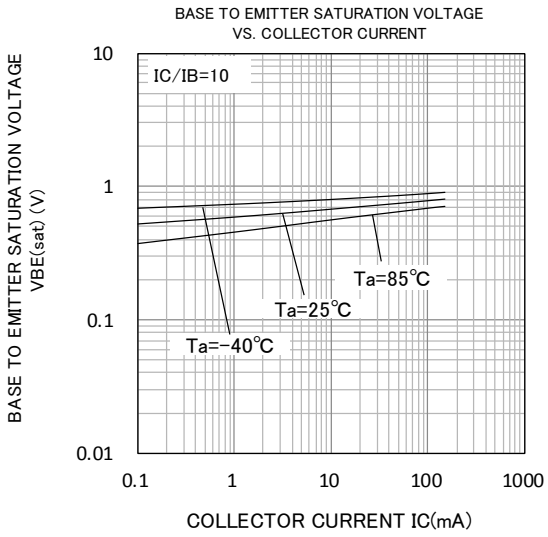












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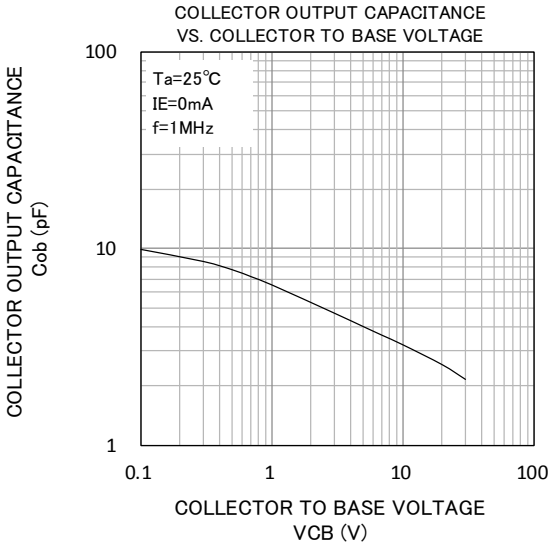

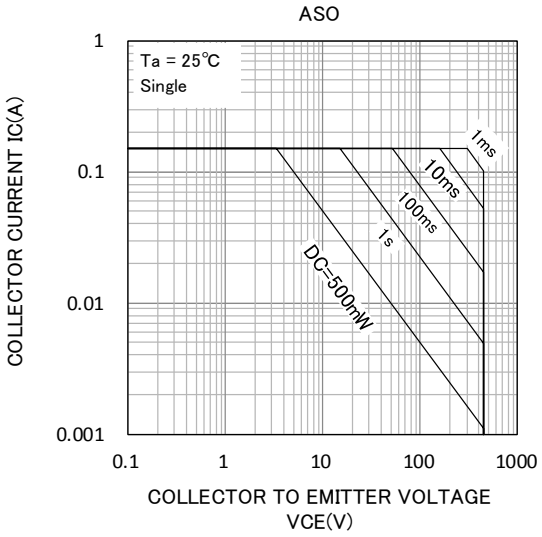

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