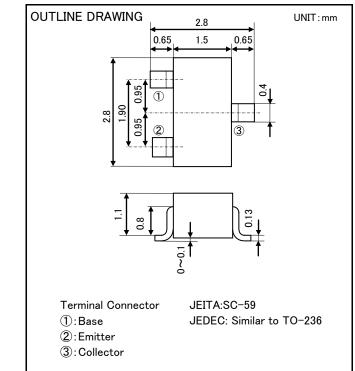
INA6005BC1-TH50

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE

AEC-Q101 Compliance



MAXIMUM RATING (Ta=25°C)

DESCRIPTION

FEATURE

APPLICATION

INA6005BC1 is a silicon PNP transistor.

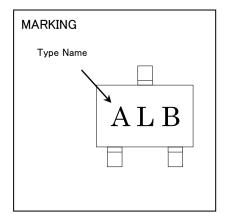
•Super mini package for easy mounting

DC/DC convertor, High voltage switching

It is designed with high voltage.

•High voltage V_{CEO} =-400V

SYMBOL	PARAMETER	RATING	UNIT
V _{CBO}	Collector to Base voltage	-400	V
V _{EBO}	Emitter to Base voltage	-7	V
V _{CEO}	Collector to Emitter voltage	-400	V
Ι _c	Collector current	-100	mA
I _{CM}	Peak collector current	-200	mA
Pc	Collector dissipation(Ta=25°C)	200	mW
Tj	Junction temperature	+150	°C
T_{stg}	Storage temperature	-55~+150	°C

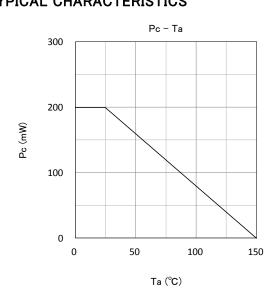


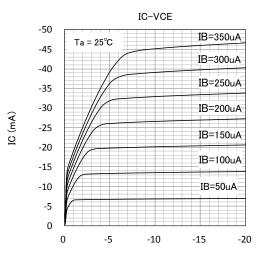
ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	UNIT
V _{(BR)CBO}	C to B break down voltage	I _c =–50uA, I _e =0mA	-400	-	-	V
V _{(BR)EBO}	E to B break down voltage	I _E =–50uA, I _c =0mA	-7	_	-	V
V _{(BR)CEO}	C to E break down voltage	I _c =−1mA, R _{BE} =∞	-400	_	_	V
I _{CBO}	Collector cut off current	V _{CB} =-400V, I _E =0mA	-	_	-1	uA
I _{EBO}	Emitter cut off current	V _{EB} =-6V, I _C =0mA	-	_	-1	uA
h _{FE}	DC forward current gain	V _{ce} =-10V, I _c =-10mA	82	_	200	-
$V_{CE(sat)}$	C to E saturation voltage	I _c =–20mA, I _B =–2mA	-	_	-0.6	V
f _T	Gain bandwidth product	V _{CE} =-20V, I _E =10mA, f=100MHz	-	65	_	MHz
Cob	Collector output capacitance	V _{cB} =-10V, I _e =0mA, f=1MHz	-	5.5	_	pF

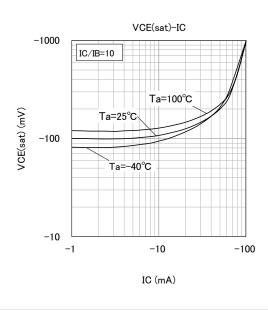
INA6005BC1-TH50

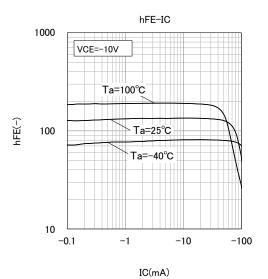
FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE

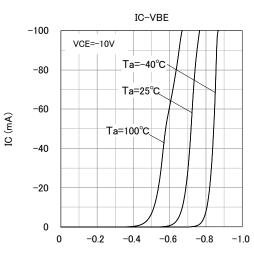




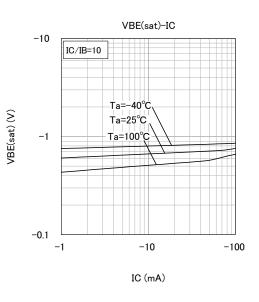










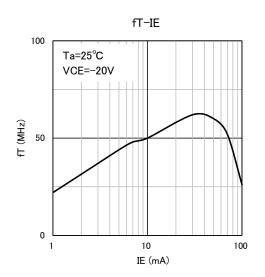


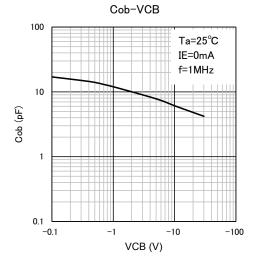
TYPICAL CHARACTERISTICS

ISAHAYA ELECTRONICS CORPORATION

INA6005BC1-TH50

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE





Keep safety first in your circuit designs!

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