PRELIMINARY

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

INA5002AC1

FOR LOW FREQUENCY AMPLIFY APPLICATION
SILICON PNP EPITAXIAL TYPE

DESCRIPTION

INA5002AC1 is a silicon PNP epitaxial transistor designed for relay drive or Power supply application.

FEATURE

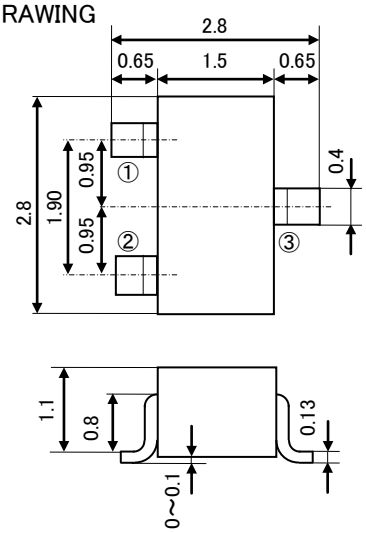
- Super mini package for easy mounting
- High voltage V_{CEO}=−60V
- High collector current I_C=−3A
- Low collector saturation voltage
  ($V_{CE(sat)}$<−0.6V_{max} ; I_C=−3A、I_B=−300mA)

APPLICATION

DC/DC convertor, Relay drive, Moter drive

OUTLINE DRAWING

UNIT : mm



Terminal Connector
①: Base
②: Emitter
③: Collector

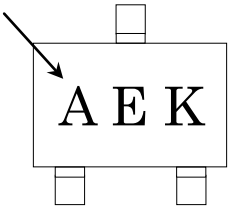
JEITA:SC-59
JEDEC: Similar to TO-236

MAXIMUM RATING (Ta=25℃)

SYMBOL	PARAMETER	RATING	UNIT
V_{CEO}	Collector to Emitter voltage	−80	V
V_{EBO}	Emitter to Base voltage	−6	V
V_{CBO}	Collector to Base voltage	−60	V
I_C	Collector current	−3	A
I_{CM}	Peak collector current	−6	
P_C	Collector dissipation(Ta=25℃)	200	mW
T_j	Junction temperature	+150	℃
T_{stg}	Storage temperature	−55～+150	℃

MARKING

Type Name



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	−80	−	−	V
$V_{(BR)EBO}$	E to B break down voltage	I_E=−100μA, I_C=0mA	−6	−	−	V
$V_{(BR)CEO}$	C to E break down voltage	I_C=−1mA, R_{BE}=∞	−60	−	−	V
I_{CBO}	Collector cut off current	V_{CB}=−60V, I_E=0mA	−	−	−1.0	μA
I_{EBO}	Emitter cut off current	V_{EB}=−4V, I_C=0mA	−	−	−1.0	μA
h_{FE}	DC forward current gain	V_{CE}=−2V, I_C=−0.5A	100	−	300	−
$V_{CE(sat)}$	C to E saturation voltage	I_C=−3A, I_B=−300mA	−	−	−0.5	V
f_T	Gain bandwidth product	V_{CE}=−5V, I_E=100mA, f=100MHz	−	150	−	MHz
Cob	Collector output capacitance	V_{CB}=−10V, I_E=0mA, f=1MHz	−	25	−	pF

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Mar.2013