

PRELIMINARY

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

INC1001AC1

FOR GENERAL PURPOSE HIGH CURRENT DRIVE APPLICATION
SILICON NPN EPITAXIAL TYPE

DESCRIPTION

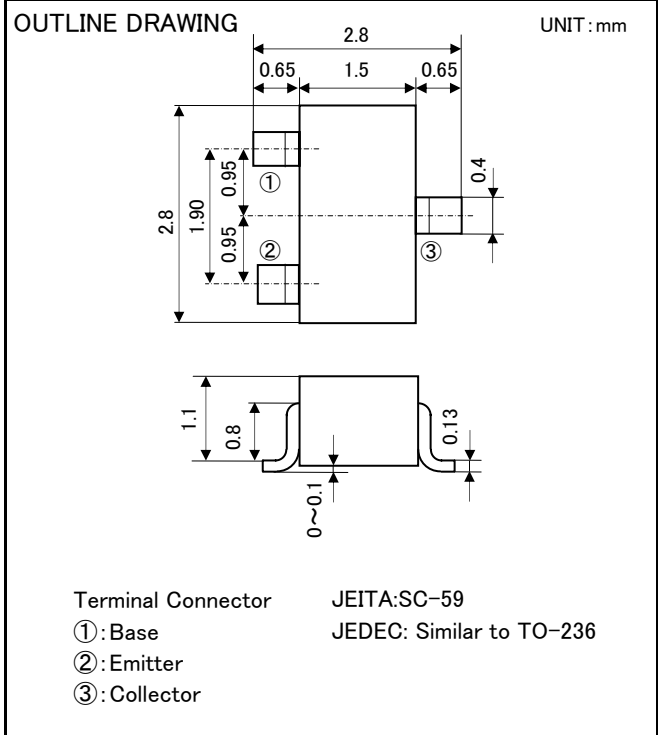
INC1001AC1 is a silicon NPN epitaxial type transistor.
It is designed with high collector current and small $V_{CE(sat)}$.

FEATURE

- Super mini package for easy mounting
- High collector current ($I_C=500mA$)
- Low collector saturation voltage
($V_{CE(sat)} < 0.25V_{max}$; $I_C=100mA$, $I_B=10mA$)

APPLICATION

For switching, Small type motor drive



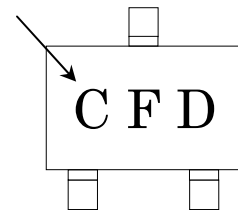
MAXIMUM RATING ($T_a=25^\circ C$)

SYMBOL	PARAMETER	RATING	UNIT
V_{CEO}	Collector to Emitter voltage	80	V
V_{CBO}	Collector to Base voltage	80	V
V_{EBO}	Emitter to Base voltage	7	V
I_C	Collector current	0.5	A
P_C	Collector dissipation($T_a=25^\circ C$)	200	mW
		500(*)	
T_j	Junction temperature	+150	$^\circ C$
T_{stg}	Storage temperature	-55 ~ +150	$^\circ C$

*Mounted on glass epoxy board(46mm × 19mm × 1mm)

MARKING

Type Name



ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
$V_{(BR)CEO}$	C to E break down voltage	$I_C=1mA$, $I_B=0mA$	80	-	-	V
$V_{(BR)CBO}$	C to B break down voltage	$I_C=100\mu A$, $I_E=0mA$	80	-	-	V
$V_{(BR)EBO}$	E to B break down voltage	$I_E=100\mu A$, $I_C=0mA$	7	-	-	V
I_{CBO}	Collector cut off current	$V_{CB}=80V$, $I_E=0mA$	-	-	0.15	μA
I_{EBO}	Emitter cut off current	$V_{EB}=7V$, $I_C=0mA$	-	-	0.15	μA
hFE1	DC forward current gain1	$V_{CE}=1V$, $I_C=10mA$	105	-	-	-
hFE2	DC forward current gain2	$V_{CE}=1V$, $I_C=100mA$	95	-	-	-
$V_{CE(sat)}$	C to E saturation voltage	$I_C=100mA$, $I_B=10mA$	-	-	0.3	V
fT	Gain bandwidth product	$V_{CE}=2V$, $I_E=-10mA$, $f=100MHz$	100	-	-	MHz



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