

INC2001AX SERIES

FOR MUTING APPLICATION
SILICON NPN EPITAXIAL TYPE

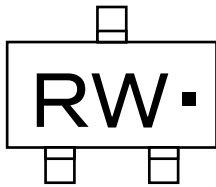
FEATURE

- Small package for easy mounting.
- High reverse h_{FE}
- Small collector to emitter saturation voltage.
 $V_{CE(sat)}=40mV_{(TYP.)} (@I_C=50mA/I_B=2.5mA)$
- Low On-Resistance
 $R_{ON}=0.65\Omega_{(TYP.)} (@I_B=5mA)$

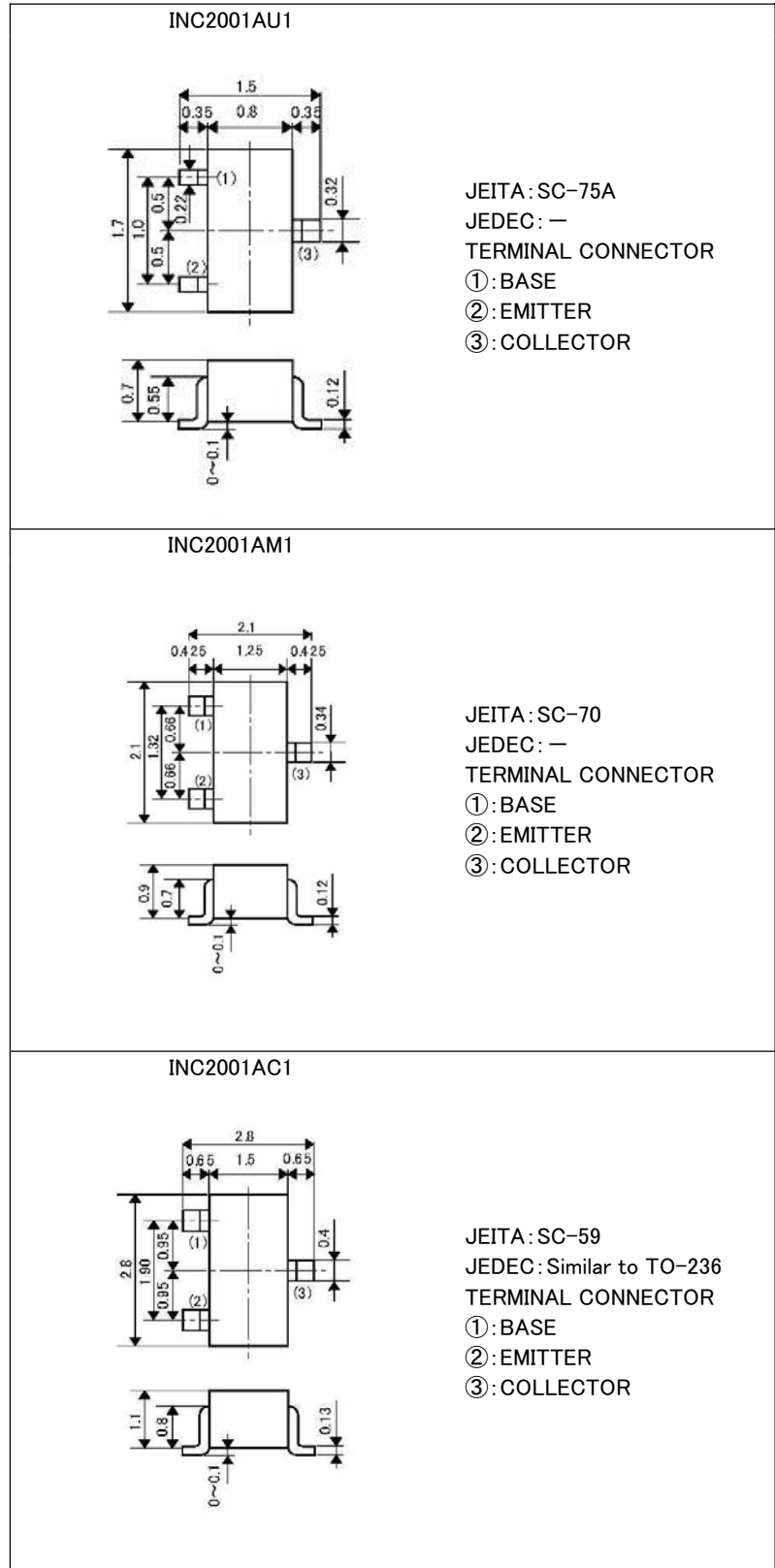
APPLICATION

muting circuit , switching circuit

MARKING



OUTLINE DRAWING (Unit:mm)



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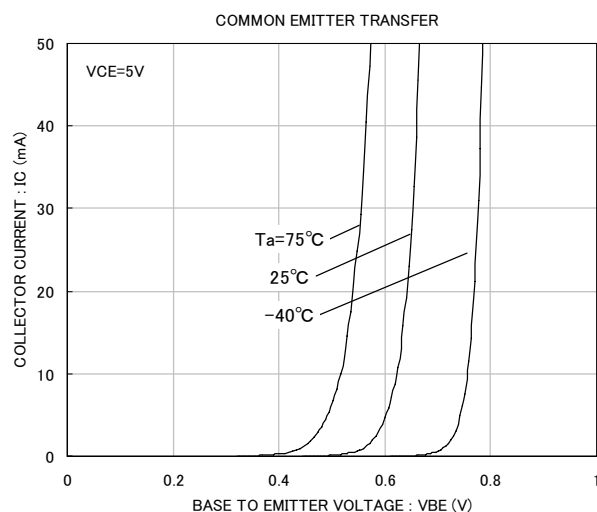
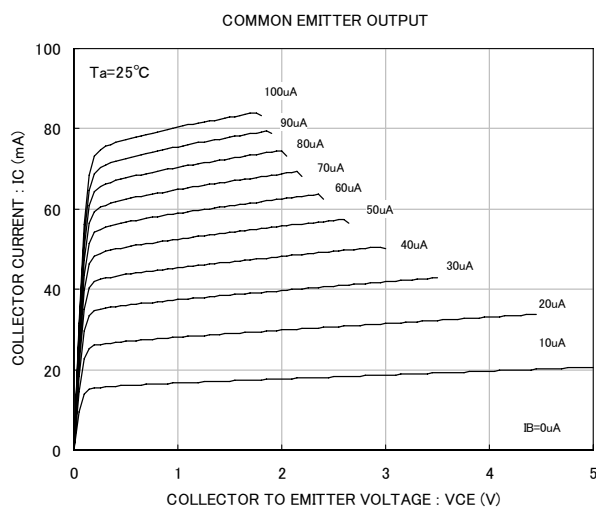
MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING			UNIT
		INC2001AU1	INC2001AM1	INC2001AC1	
V _{CBO}	Collector to Base voltage	40			V
V _{EBO}	Emitter to Base voltage	40			V
V _{CEO}	Collector to Emitter voltage	20			V
I _C	Collector current	600			mA
P _C	Collector dissipation	150	200		mW
T _J	Junction temperature	+150			°C
T _{stg}	Storage temperature	-55~+150			°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

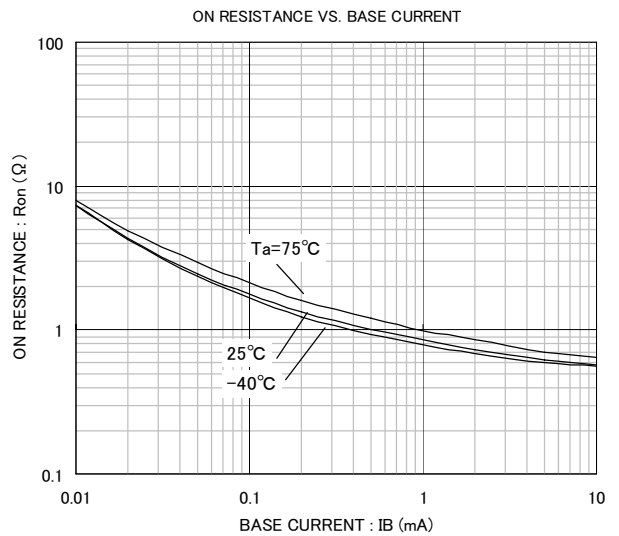
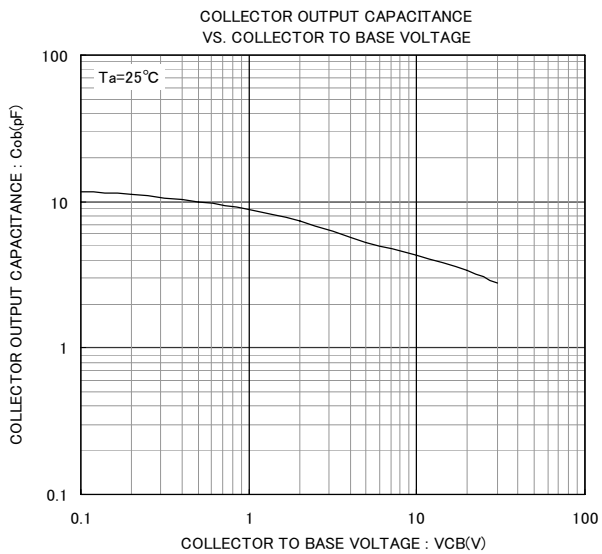
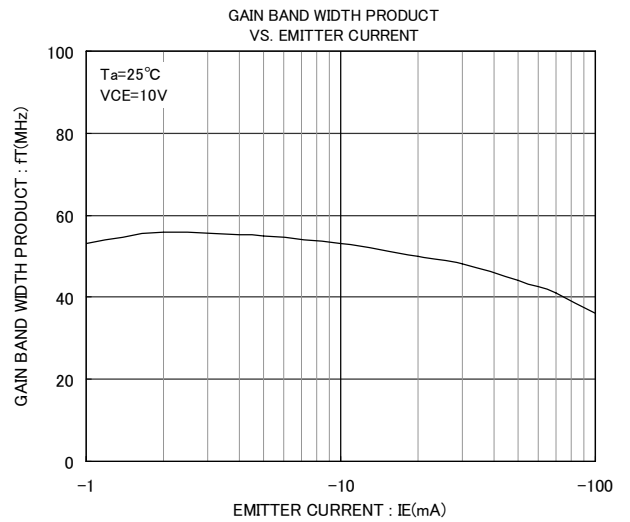
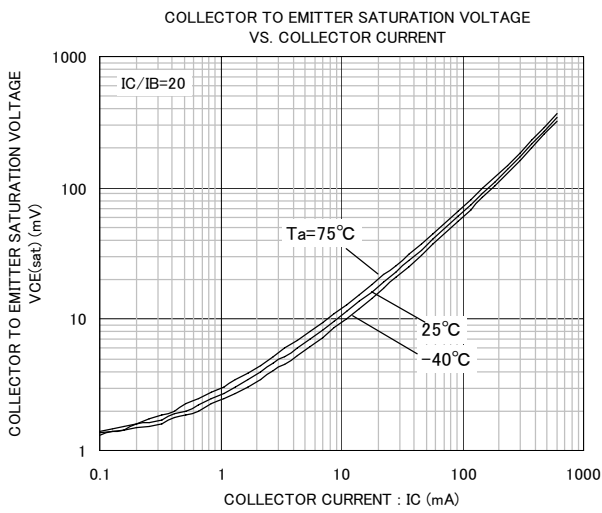
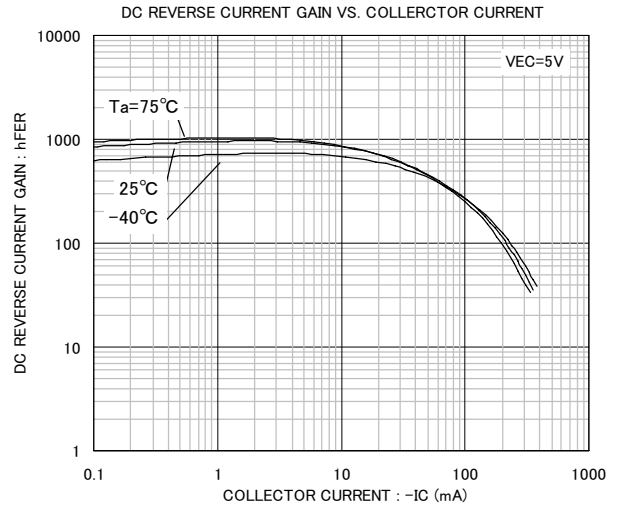
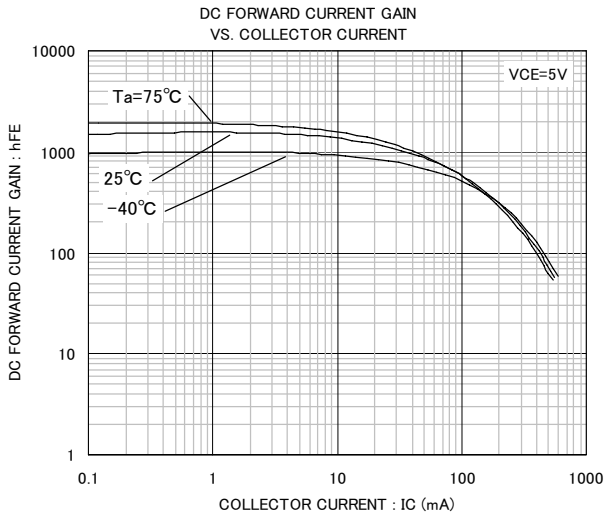
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	
V _{(BR)CBO}	C to B break down voltage	I _C =50μA, I _E =0mA	40	-	-	V
V _{(BR)EBO}	E to B break down voltage	I _E =50μA, I _C =0mA	40	-	-	V
V _{(BR)CEO}	C to E break down voltage	I _C =1mA, R _{BE} =∞	20	-	-	V
I _{CBO}	Collector cut off current	V _{CB} =40V, I _E =0mA	-	-	0.5	μA
I _{EBO}	Emitter cut off current	V _{EB} =40V, I _C =0mA	-	-	0.5	μA
h _{FE}	DC forward current gain	V _{CE} =5V, I _C =10mA	820	-	2500	-
V _{CE(sat)}	C to E saturation voltage	I _C =50mA, I _B =2.5mA	-	40	150	mV
f _T	Gain band width product	V _{CE} =10V, I _E =-10mA, f=100MHz	-	50	-	MHz
C _{ob}	Collector output capacitance	V _{CB} =10V, I _E =0A, f=1MHz	-	5.0	-	pF
R _{ON}	Output "ON" resistance	I _B =5mA, R _L =1kΩ	-	0.65	-	Ω

TYPICAL CHARACTERISTICS



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6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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