

INC2002AX SERIES

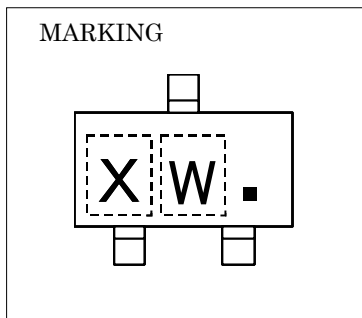
FOR MUTING APPLICATION
SILICON NPN EPITAXIAL TYPE

FEATURE

- Small package for easy mounting.
- High reverse hFE
- Small collector to emitter saturation voltage.
 $V_{CE(sat)}=40\text{mV(TYP.)}(@I_C=50\text{mA}/I_B=2.5\text{mA})$
- Low on Resistance
 $R_{on}=0.65\ \Omega\text{(TYP.)}(@I_B=5\text{mA})$

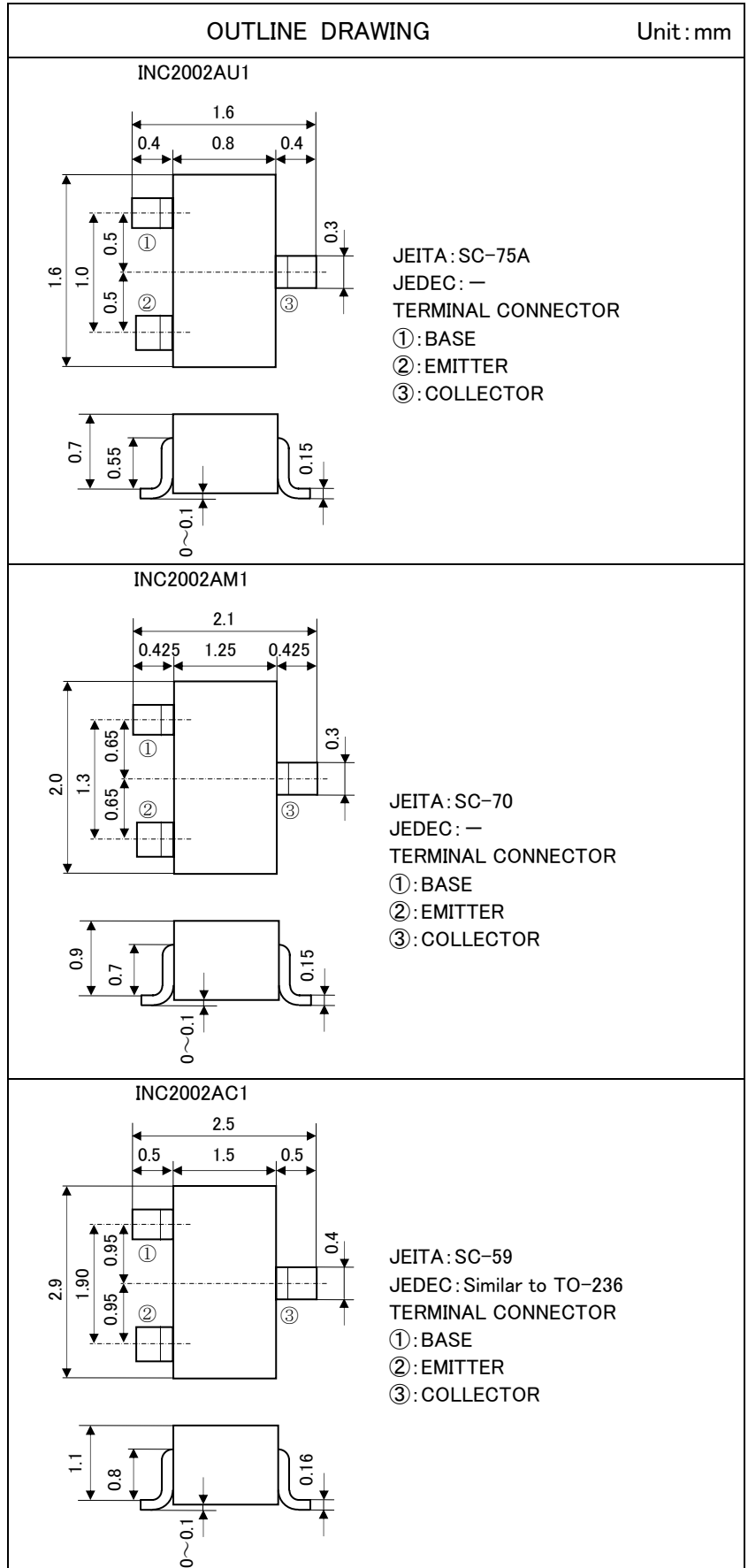
APPLICATION

muting circuit , switching circuit



OUTLINE DRAWING

Unit : mm



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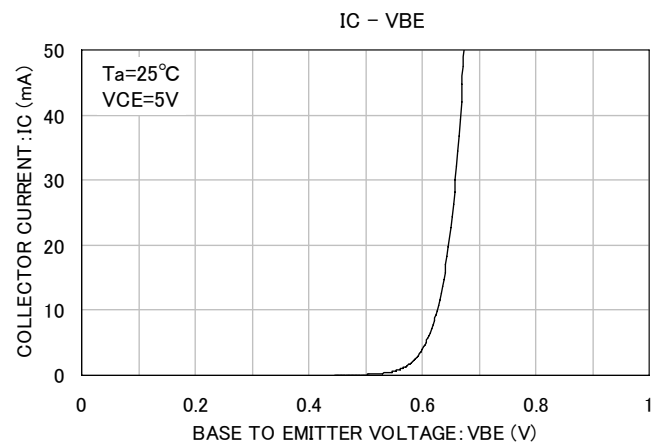
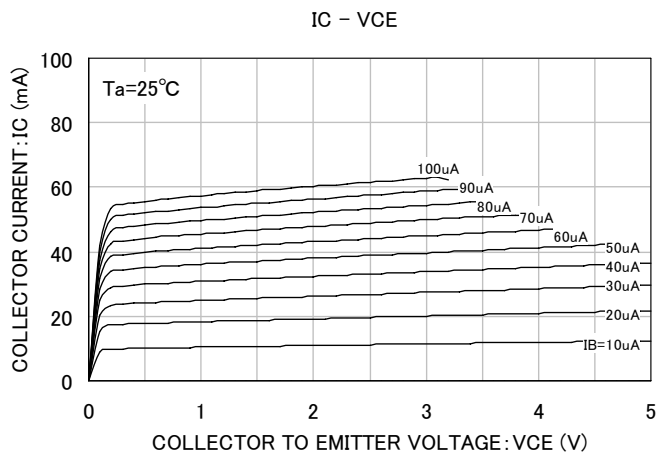
MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING			UNIT
		INC2002AU1	INC2002AM1	INC2002AC1	
V _{CBO}	Collector to Base voltage	50			V
V _{EBO}	Emitter to Base voltage	50			V
V _{CEO}	Collector to Emitter voltage	20			V
I _C	Collector current	600			mA
P _C	Collector dissipation (Ta=25°C)	150	200		mW
T _j	Junction temperature	+150			°C
T _{stg}	Storage temperature	-55~+150			°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

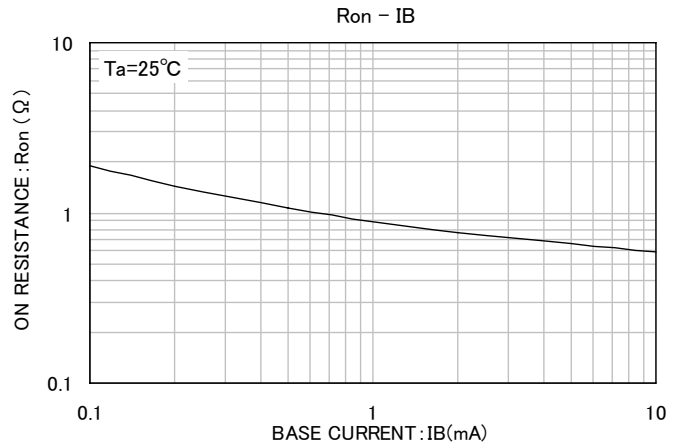
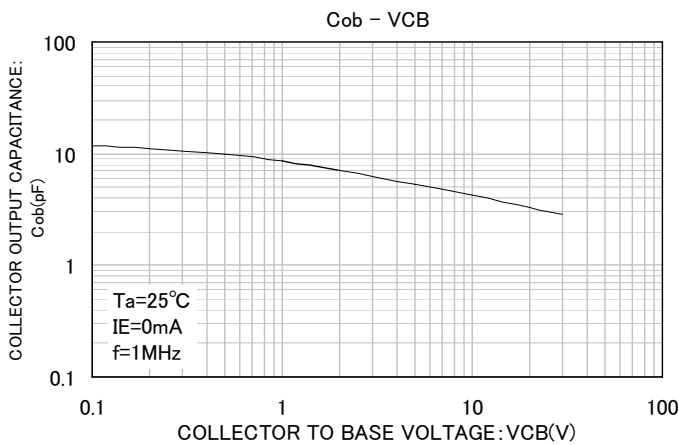
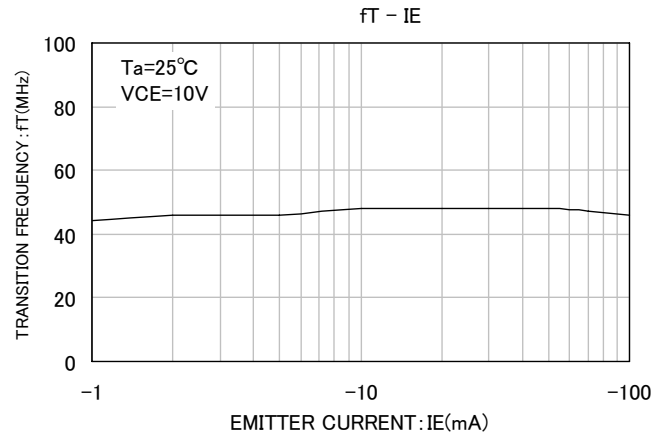
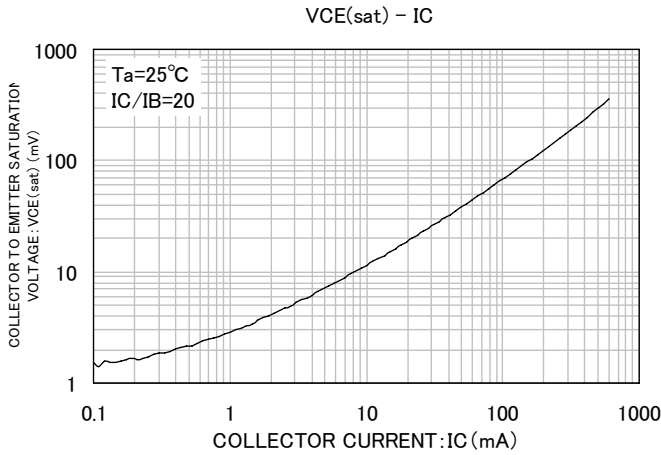
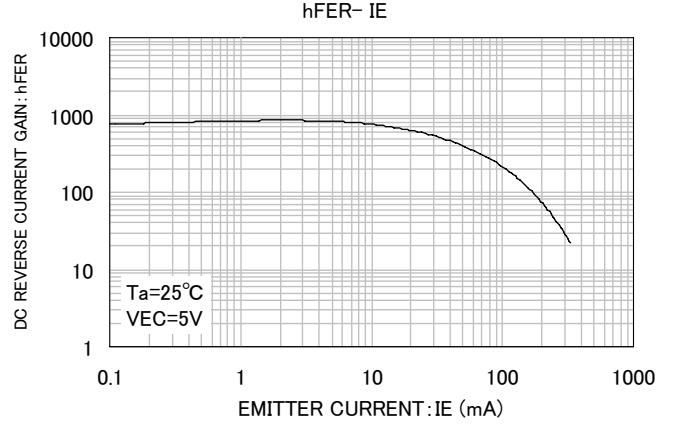
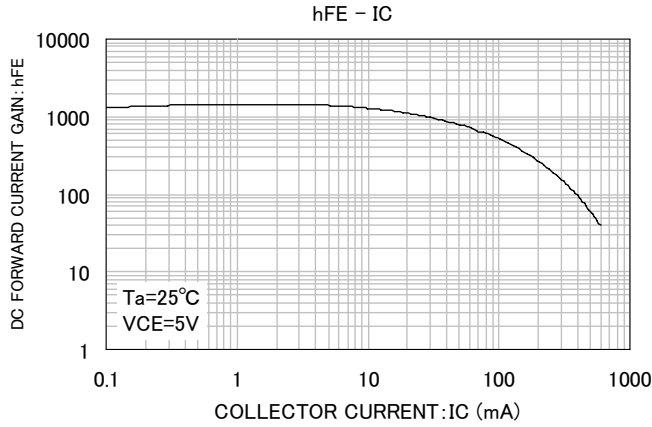
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	
V _{(BR)CBO}	C to B break down voltage	I _C =50 μA, I _E =0mA	50			V
V _{(BR)EBO}	E to B break down voltage	I _E =50 μA, I _C =0mA	50			V
V _{(BR)CEO}	C to E break down voltage	I _C =1mA, R _{BE} =∞	20			V
I _{CBO}	Collector cut off current	V _{CB} =50V, I _E =0mA			0.5	μA
I _{EBO}	Emitter cut off current	V _{EB} =50V, 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		40		MHz
C _{ob}	Collector output capacitance	V _{CB} =10V, I _E =0A, f=1MHz		4.0		pF
R _{ON}	Output "ON" resistance	I _B =5mA, R _L =1kΩ		0.65		Ω

TYPICAL CHARACTERISTICS



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