INC2001AX SERIES

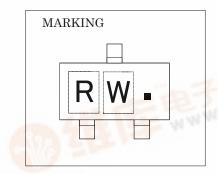
FOR MUTING APPLICATION SILICON NPN EPITAXIAL TYPE

FEATURE

- Small package for easy mounting.
- ·High reverse hFE
- Small collector to emitter saturation voltage.
 VCE(sat)=40mV(TYP.)(@IC=50mA/IB=2.5mA)
- *Low on Resistance Ron=0.65 Ω (TYP.)(@IB=5mA)

APPLICATION

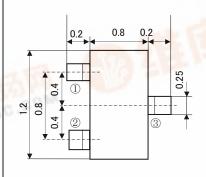
muting circuit, switching circuit



OUTLINE DRAWING

Unit:mm

INC2001AT2 (PRELIMINARY)





JEITA, JEDEC: — ISAHAYA: T-USM

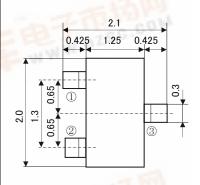
TERMINAL CONNECTOR

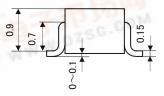
 $\textcircled{1} : \mathsf{BASE}$

②:EMITTER

③: COLLECTOR

INC2001AM1





JEITA: SC-70 JEDEC: —

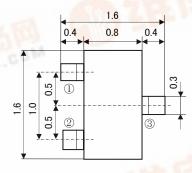
TERMINAL CONNECTOR

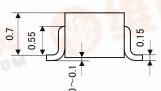
1:BASE

②:EMITTER

3: COLLECTOR

INC2001AU1





JEITA:SC-75A JEDEC:—

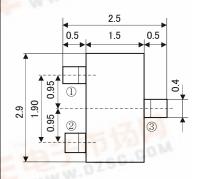
TERMINAL CONNECTOR

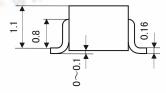
①:BASE

2:EMITTER

3: COLLECTOR

INC2001AC1





JEITA: SC-59

JEDEC: Similar to TO-236

TERMINAL CONNECTOR

1:BASE

2:EMITTER

③: COLLECTOR



INC2001AX SERIES

FOR MUTING APPLICATION SILICON NPN EPITAXIAL TYPE

MAXIMUM RATING(Ta=25°C)

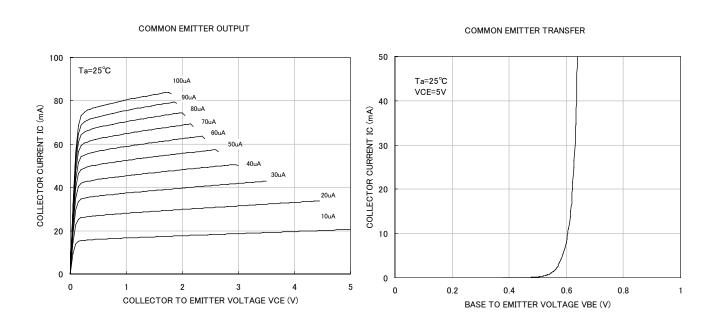
SYMBOL	PARAMETER	RATING				
		INC2001AT2	INC2001AU1	INC2001AM1	INC2001AC1	UNIT
V _{CBO}	Collector to Base voltage	40				
V_{EBO}	Emitter to Base voltage	40				
V_{CEO}	Collector to Emitter voltage	20				
I c	Collector current	600				
P _c	Collector	125(※)	150	200		mW
	dissipation(Ta=25°C)	123(%)				
Tj	Junction temperature	+125	+150			°C
Tstg	Storage temperature	−55 ~ +125	−55 ~ +150			°C

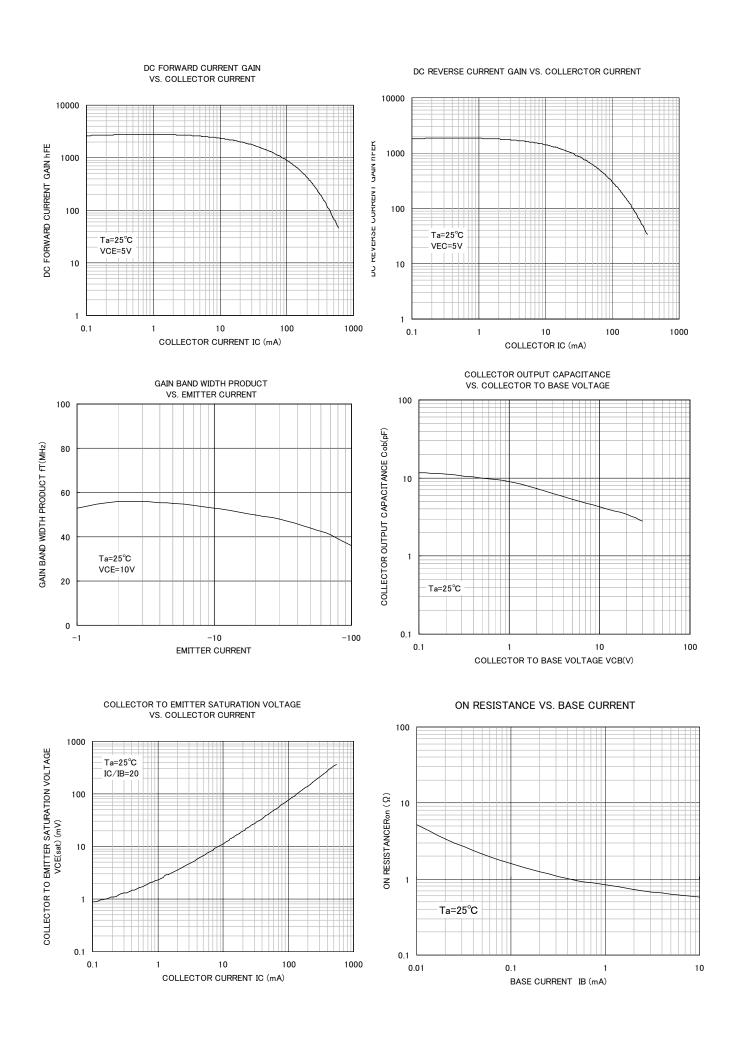
ELECTRICAL CHARACTERISTICS (Ta=25°C)

※package mounted on 9mm x 19mm x 1mm glass-epoxy substrate.

		·		_		
SYMBOL	PARAMETER	TEST CONDITION		LIMIT		
		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CBO}$	C to B break down voltage	$I_{c}=50 \mu A, I_{e}=0mA$	40			V
$V_{(BR)EBO}$	E to B break down voltage	$I_E=50 \mu A, I_C=0mA$	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	μΑ
I _{EBO}	Emitter cut off current	V_{EB} =40V, I $_{C}$ =0mA			0.5	μΑ
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	$I_B=5mA$, $R_L=1k\Omega$		0.65		Ω

TYPICAL CHARACTERISTICS







Marketing division, Marketing planning department

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

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