Unit: mm

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

HN2A01FU

Audio Frequency General Purpose Amplifier Applications

• Small package (dual type)

• High voltage and high current : $V_{CEO} = -50V$, $I_C = -150 \text{mA}$ (max)

• High hFE : $hFE = 120 \sim 400$

• Excellent hFE linearity : hFE (IC = -0.1 mA) / (IC = -2 mA)

= 0.95 (typ.)

Maximum Ratings (Ta = 25°C) (Q1, Q2 Common)

Characteristic	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-50	V
Collector-emitter voltage	V _{CEO}	-50	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	IC	-150	mA
Base current	ΙΒ	-30	mA
Collector power dissipation	P _C *	200	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C

^{*} Total rating

2.1 ± 0.1 $\boldsymbol{1.25 \pm 0.1}$ 0.65 1.3 ± 0.1 1. EMITTER 1 (E1) 2. EMITTER 2 (E2)3. BASE 2 (B2) 4. COLLECTOR 2 (C2)5. BASE 1 (B1) 6. COLLECTOR 1 (C1) **JEDEC** EIAJ TOSHIBA 2-2J1B

Weight: 6.8mg

Electrical Characteristics (Ta = 25°C) (Q1, Q2 Common)

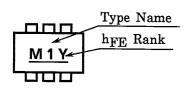
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	_	$V_{CB} = -50V, I_{E} = 0$	_	_	-0.1	μΑ
Emitter cut-off current	I _{EBO}	_	$V_{EB} = -5V$, $I_C = 0$	_	_	-0.1	μA
DC current gain	h _{FE (Note)}	_	$V_{CE} = -6V, I_{C} = -2mA$	120	_	400	_
Collector-emitter saturation voltage	V _{CE (sat)}	_	I _C = -100mA, I _B = -10mA	_	-0.1	-0.3	V
Transition frequency	f _T	_	$V_{CE} = -10V, I_{C} = -1mA$	80	_	_	MHz
Collector output capacitance	C _{ob}	_	$V_{CB} = -10V$, $I_E = 0$, $f = 1MH_z$	_	4	7	pF

Note: hFE classification

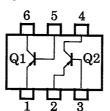
Y(Y): 120~240, GR(G): 200~400

() marking symbol

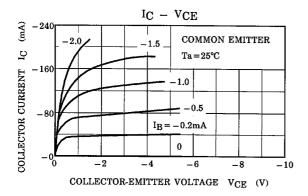
Marking

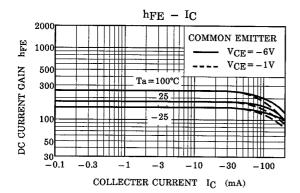


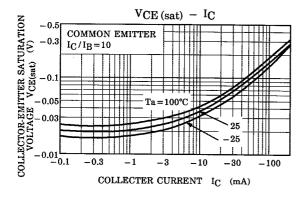
Equivalent Circuit (Top View)

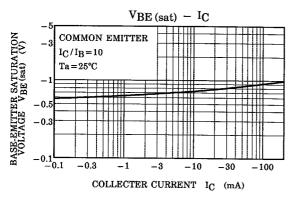


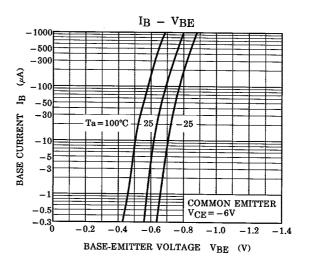
(Q1, Q2 Common)

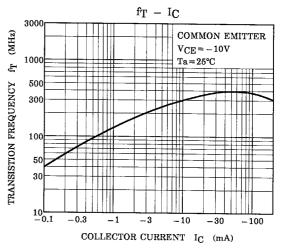


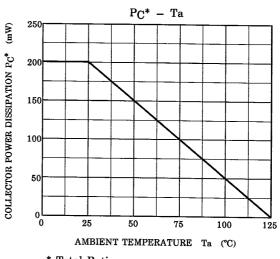












* Total Rating

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000707EAA

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