

HN2C01FU

Audio Frequency General Purpose Amplifier Applications

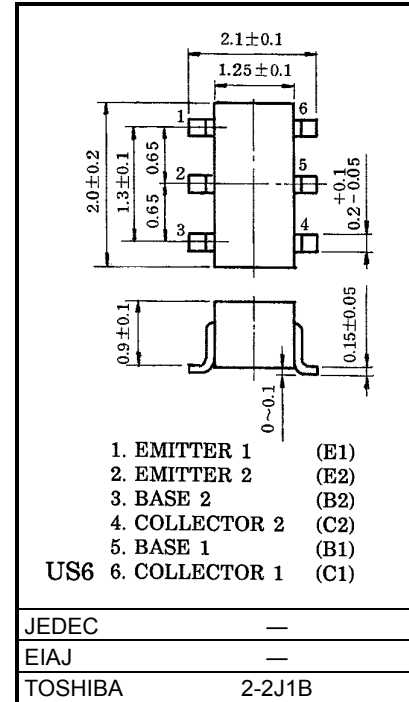
Unit: mm

- Small package (dual type)
- High voltage and high current : $V_{CEO} = 50V$, $I_C = 150mA$ (max)
- High h_{FE} : $h_{FE} = 120\sim 400$
- Excellent h_{FE} linearity : $h_{FE} (I_C = 0.1mA) / (I_C = 2mA) = 0.95$ (typ.)

Maximum Ratings ($T_a = 25^\circ C$) (Q1, Q2 Common)

Characteristic	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	60	V
Collector-emitter voltage	V_{CEO}	50	V
Emitter-base voltage	V_{EBO}	5	V
Collector current	I_C	150	mA
Base current	I_B	30	mA
Collector power dissipation	P_C^*	200	mW
Junction temperature	T_j	125	$^\circ C$
Storage temperature range	T_{stg}	-55~125	$^\circ C$

* Total rating



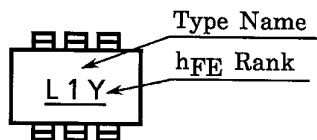
Weight: 6.8mg

Electrical Characteristics ($T_a = 25^\circ C$) (Q1, Q2 Common)

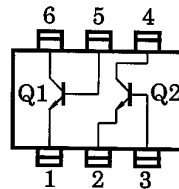
Characteristic	Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	I_{CBO}	—	$V_{CB} = 60V$, $I_E = 0$	—	—	0.1	μA
Emitter cut-off current	I_{EBO}	—	$V_{EB} = 5V$, $I_C = 0$	—	—	0.1	μA
DC current gain	h_{FE} (Note)	—	$V_{CE} = 6V$, $I_C = 2mA$	120	—	400	—
Collector-emitter saturation voltage	$V_{CE(sat)}$	—	$I_C = 100mA$, $I_B = 10mA$	—	0.1	0.25	V
Transition frequency	f_T	—	$V_{CE} = 10V$, $I_C = 1mA$	80	—	—	MHz
Collector output capacitance	C_{ob}	—	$V_{CB} = 10V$, $I_E = 0$, $f = 1MHz$	—	2	3.5	pF

Note: h_{FE} classification
 Y(Y): 120~240, GR(G): 200~400
 () marking symbol

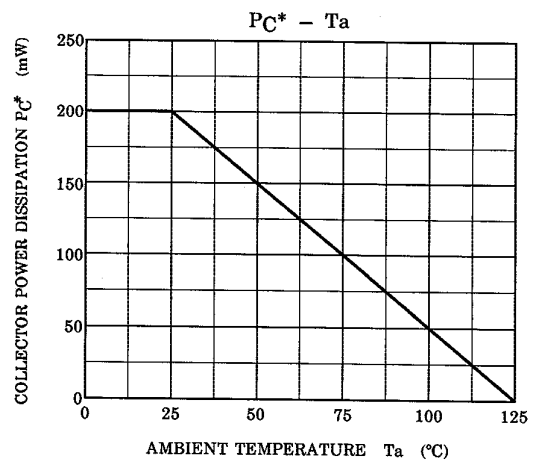
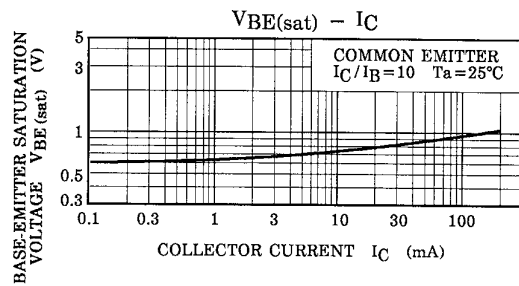
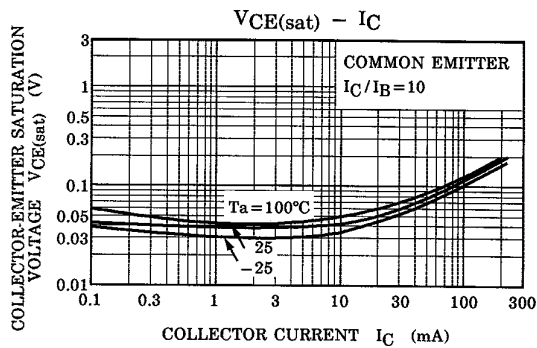
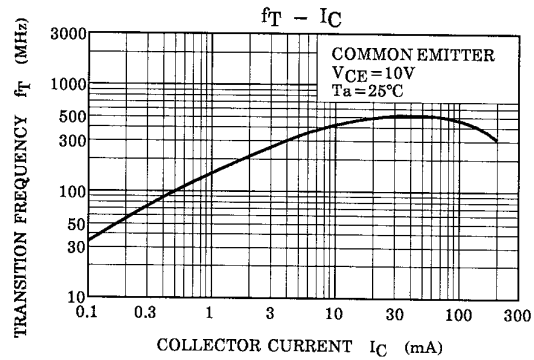
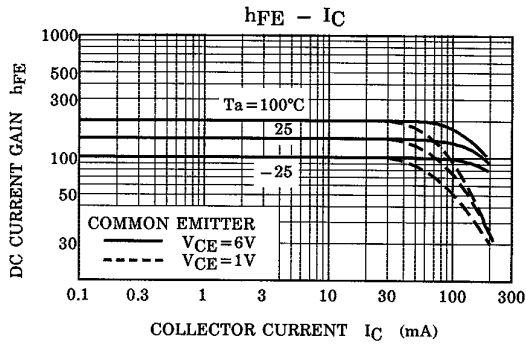
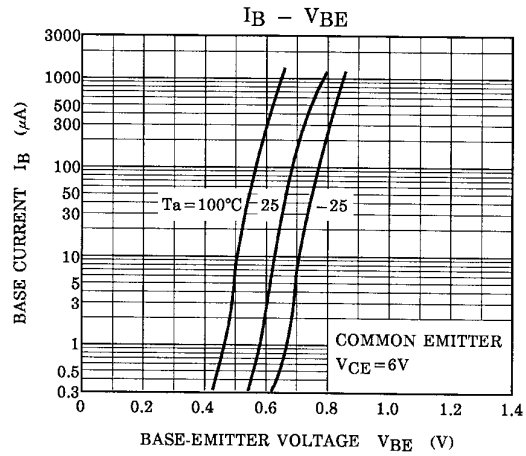
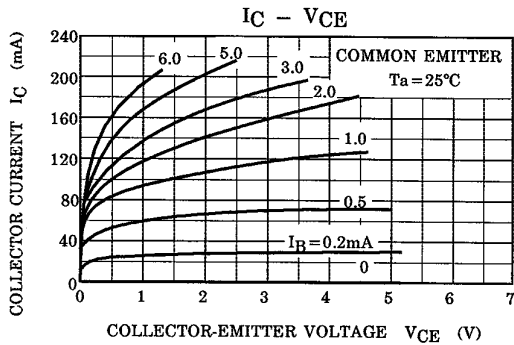
Marking



Equivalent Circuit (Top View)



(Q1, Q2 Common)



*: Total Rating

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