

TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL TYPE (PCT PROCESS)

HN2C01FU

AUDIO FREQUENCY GENERAL PURPOSE AMPLIFIER APPLICATIONS.

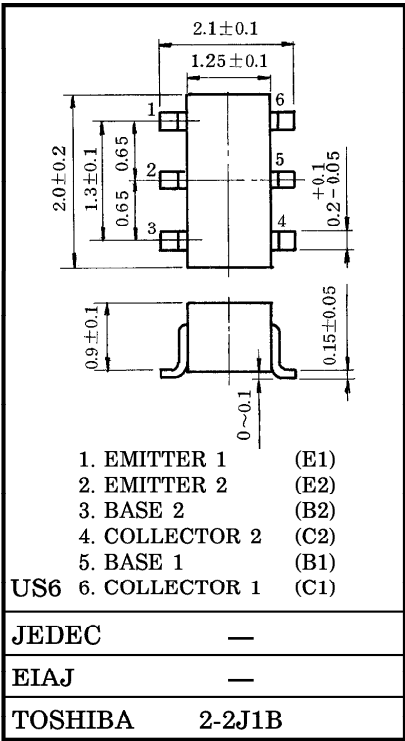
Unit in mm

- Small Package (Dual Type)
- High Voltage and High Current
: $V_{CEO}=50V$, $I_C=150mA$ (MAX.)
- High h_{FE} : $h_{FE}=120\sim400$
- Excellent h_{FE} Linearity
: $h_{FE}(I_C=0.1mA)/h_{FE}(I_C=2mA)=0.95$ (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}	$-55\sim125$	$^{\circ}C$

* Total Rating



Weight : 6.8mg

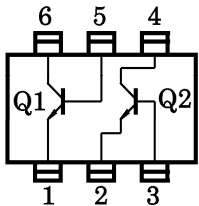
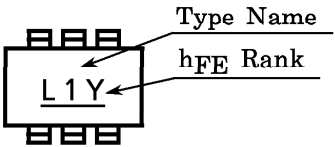
ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}C$) (Q1, Q2 COMMON)

CHARACTERISTIC	SYMBOL	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

EQUIVALENT CIRCUIT (TOP VIEW)

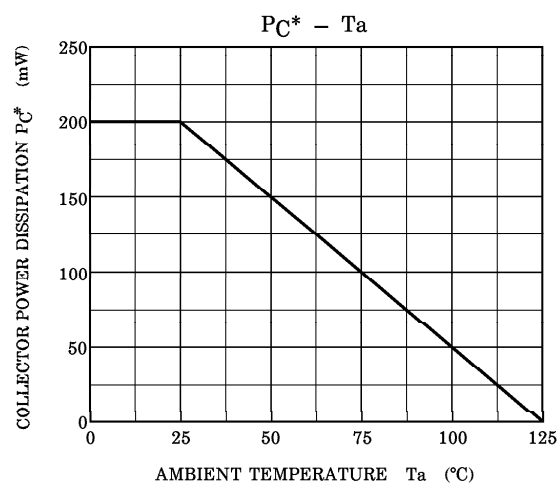
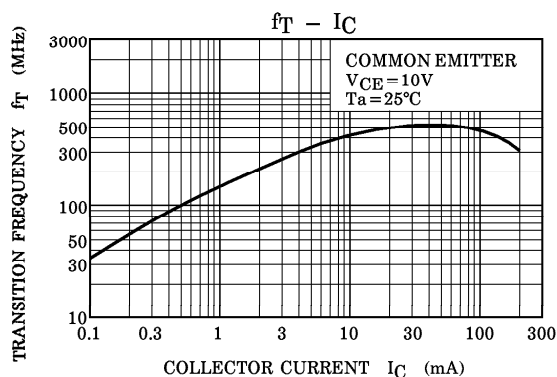
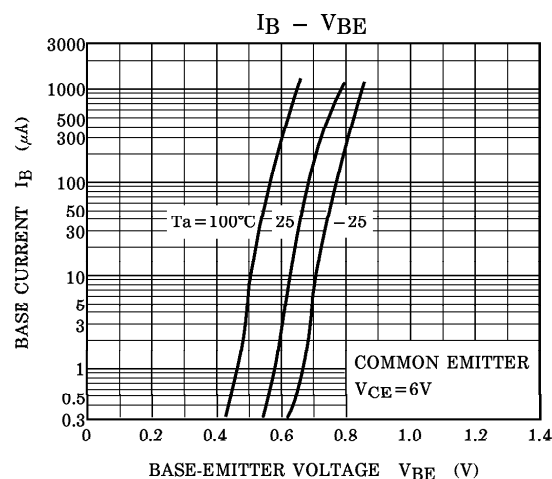
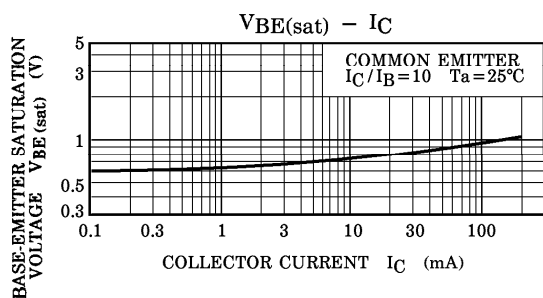
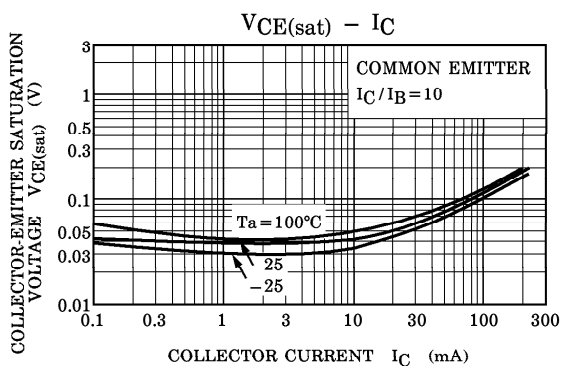
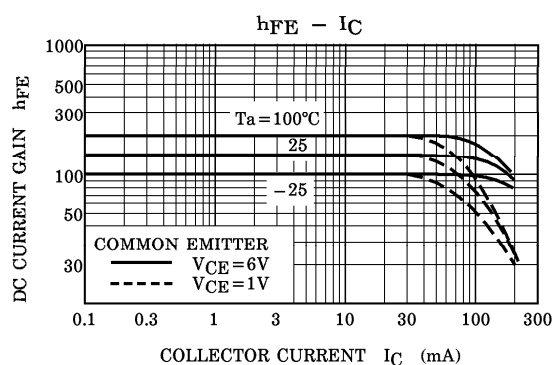
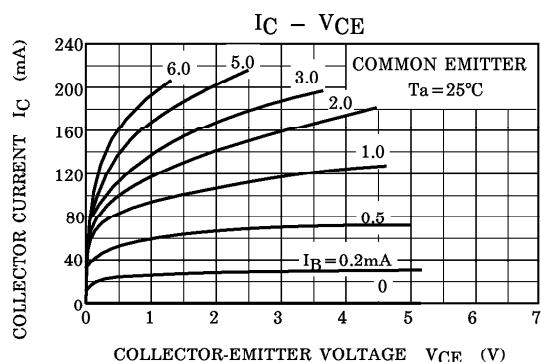
MARKING



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(Q1, Q2 COMMON)



*: Total Rating

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