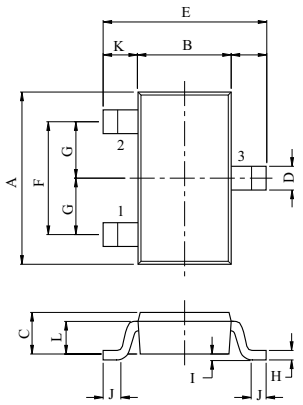
KTC3207T

TRIPLE DIFFUSED NPN TRANSISTOR

HIGH VOLTAGE SWITCHING APPLICATION.
COLOR TV HORIZONTAL DRIVER APPLICATION.
COLOR TV CHROMA OUTPUT APPLICATION.

FEATURES

- High Voltage : $V_{(BR)CEO}$=300V
- Small Collector Output Capacitance : C_{ob}=3.0pF(Typ.)
- Complementary to KTA1073T.



DIM	MILLIMETERS
A	2.9±0.2
B	1.6+0.2/-0.1
C	0.70±0.05
D	0.4±0.1
E	2.8+0.2/-0.3
F	1.9±0.2
G	0.95
H	0.16±0.05
I	0.00-0.10
J	0.25+0.25/-0.15
K	0.60
L	0.55

1. EMITTER
2. BASE
3. COLLECTOR

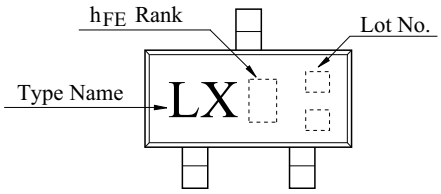
TSM

MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	300	V
Collector-Emitter Voltage	V_{CEO}	300	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current	I_C	100	mA
Base Current	I_B	50	mA
Collector Power Dissipation	P_C *	0.9	W
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55～150	℃

* Package mounted on a ceramic board (600㎟×0.8㎜)

Marking

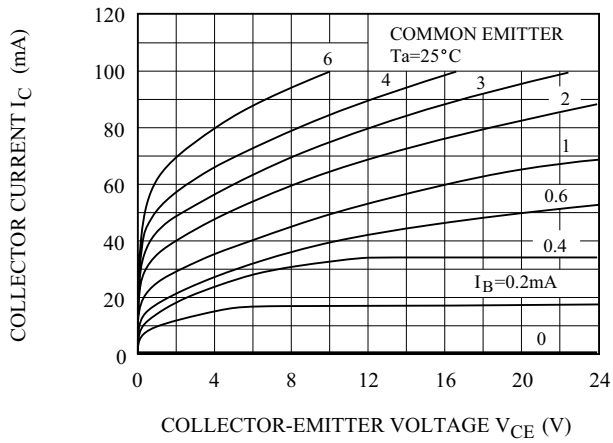


ELECTRICAL CHARACTERISTICS (Ta=25℃)

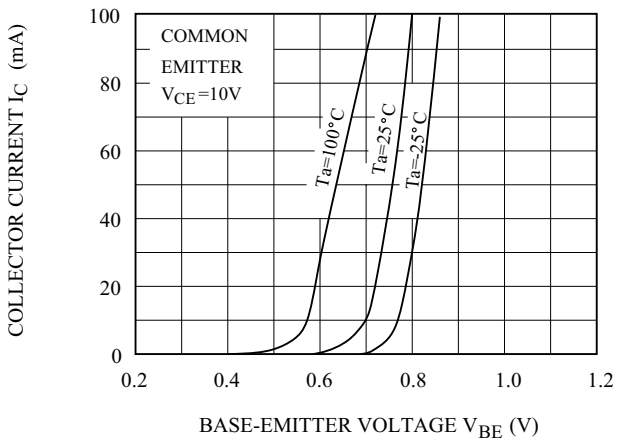
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB}=240V, I_E=0	-	-	1.0	μA
Emitter Cut-off Current	I_{EBO}	V_{EB}=6V, I_C=0	-	-	1.0	μA
DC Current Gain	h_{FE}(1)	V_{CE}=10V, I_C=1mA	30	-	-	
	h_{FE}(2) (Note)	V_{CE}=10V, I_C=20mA	50	-	200	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=10mA, I_B=1mA	-	-	1.0	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=10mA, I_B=1mA	-	-	1.0	V
Transition Frequency	f_T	V_{CE}=10V, I_C=20mA	50	-	-	MHz
Collector Output Capacitance	C_{ob}	V_{CB}=20V, I_E=0, f=1MHz	-	3.0	-	pF

Note : h_{FE}(2) Classification O:50～150, Y:100～200

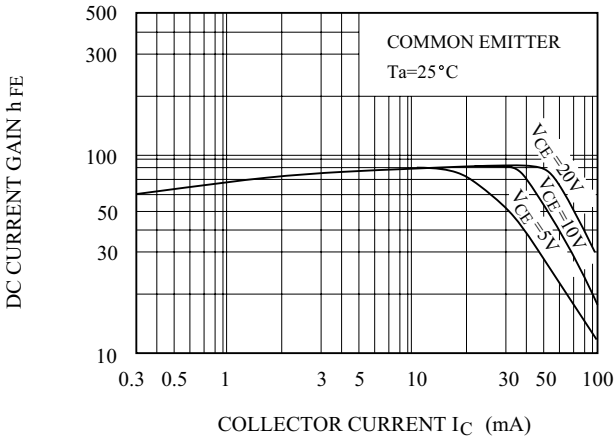
I_C - V_{CE}



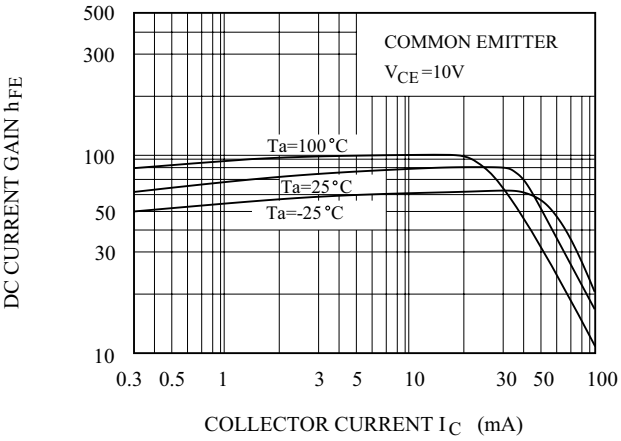
I_C - V_{BE}



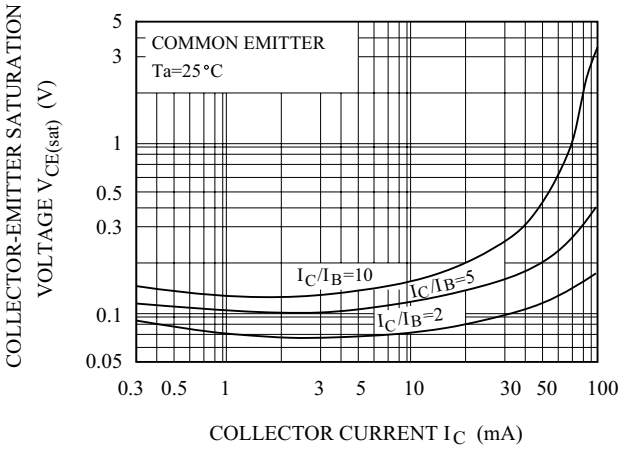
h_{FE} - I_C



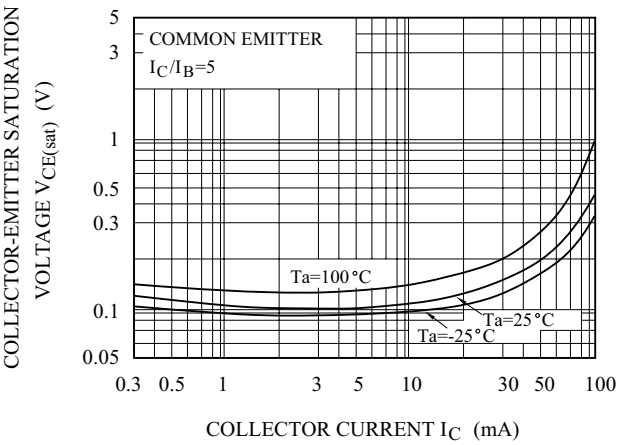
h_{FE} - I_C



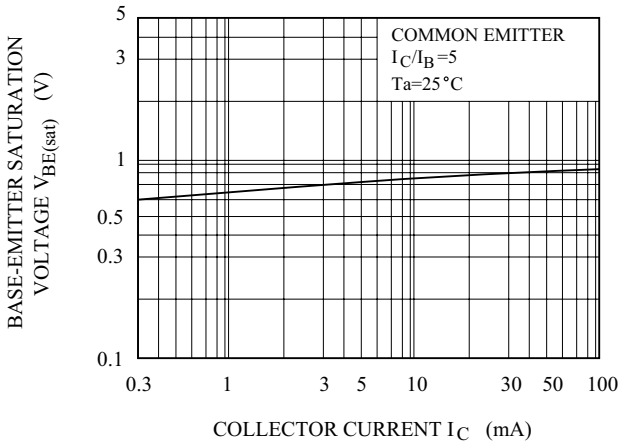
$V_{CE(sat)}$ - I_C



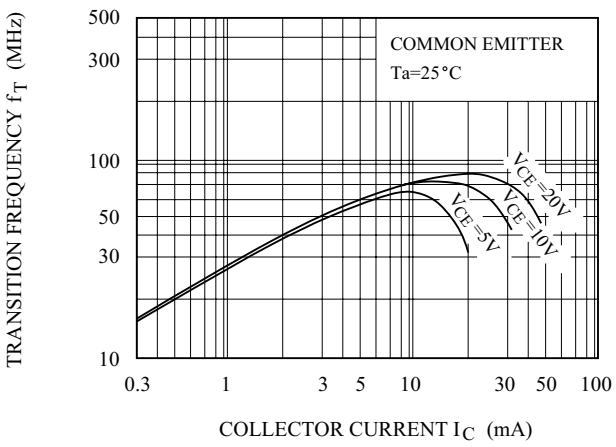
$V_{CE(sat)}$ - I_C



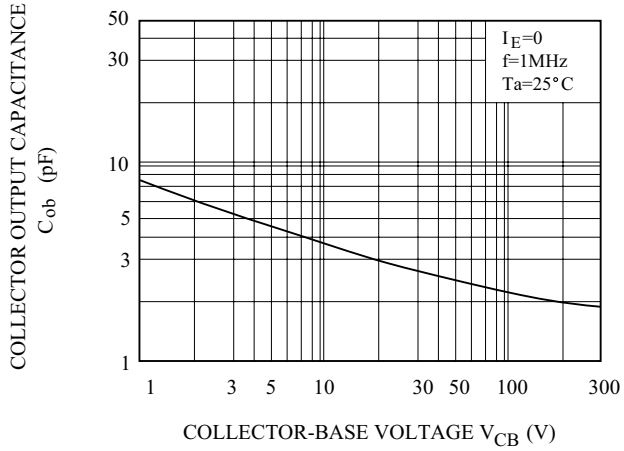
$V_{BE(sat)}$ - I_C



f_T - I_C



C_{ob} - V_{CB}



Pc - Ta