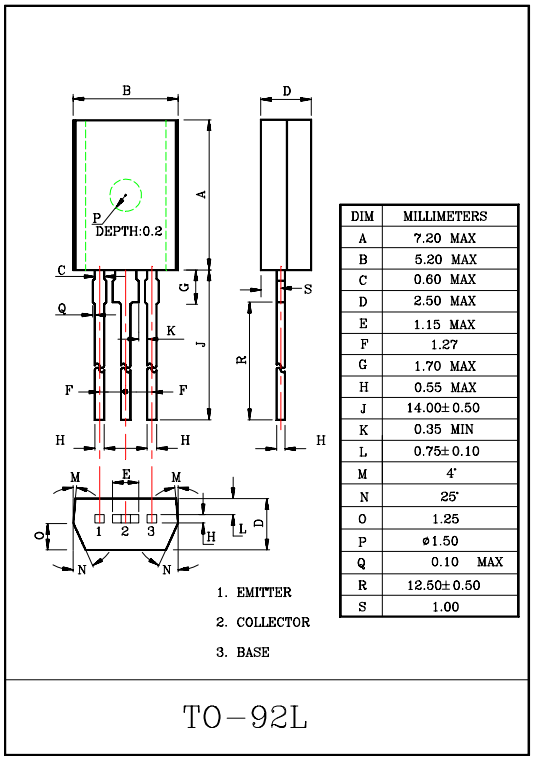
KTC3207

TRIPLE DIFFUSED NPN TRANSISTOR

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

FEATURES

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



DIM	MILLIMETERS
A	7.20 MAX
B	5.20 MAX
C	0.60 MAX
D	2.50 MAX
E	1.15 MAX
F	1.27
G	1.70 MAX
H	0.55 MAX
J	14.00±0.50
K	0.35 MIN
L	0.75±0.10
M	4°
N	25°
O	1.25
P	ø1.50
Q	0.10 MAX
R	12.50±0.50
S	1.00

TO-92L

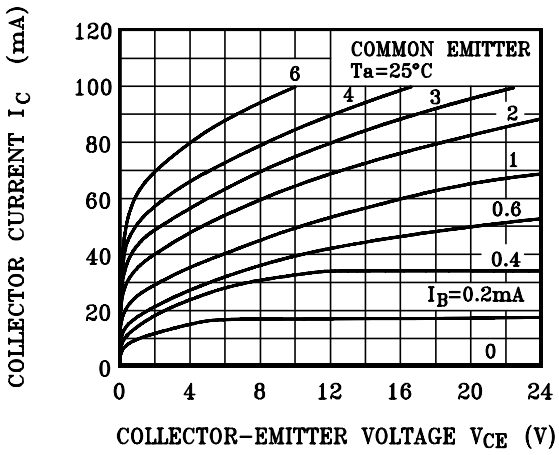
MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	300	V
Collector-Emitter Voltage	V_{CEO}	300	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current	I_C	100	mA
Base Current	I_B	50	mA
Collector Power Dissipation	P_C	1	W
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55~150	℃

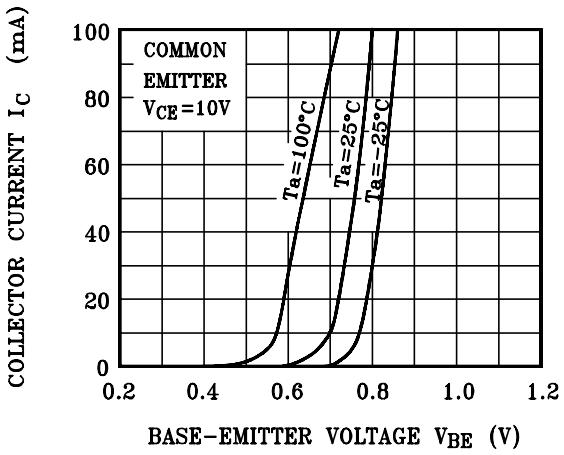
ELECTRICAL CHARACTERISTICS (Ta=25℃)

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}=7V, I_C=0	-	-	1.0	μA
DC Current Gain	$h_{FE}(1)$	V_{CE}=10V, I_C=4mA	20	-	-	
	$h_{FE}(2)$	V_{CE}=10V, I_C=20mA	30	-	150	
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

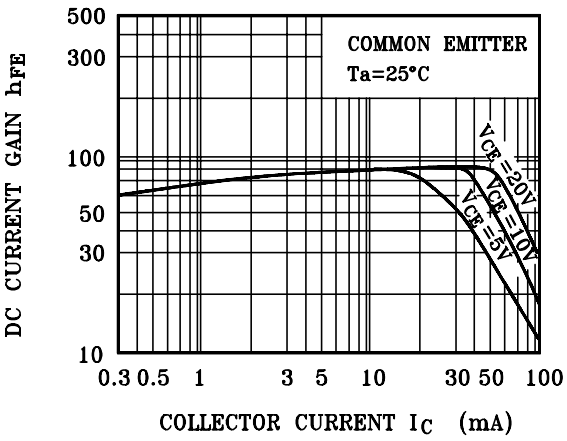
I_C – V_{CE}



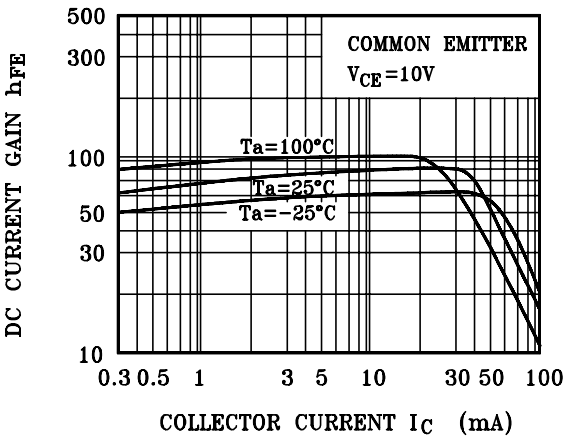
I_C – V_{BE}



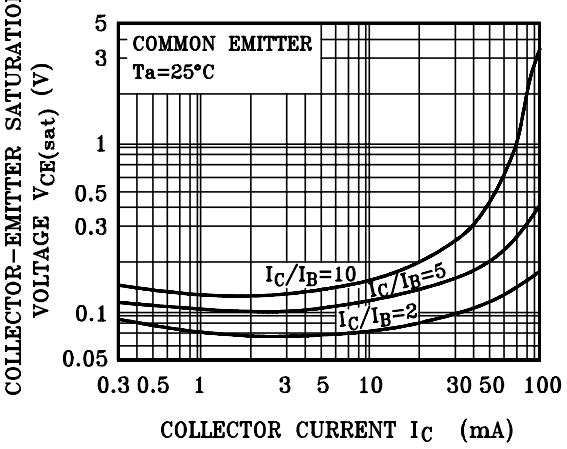
h_{FE} – I_C



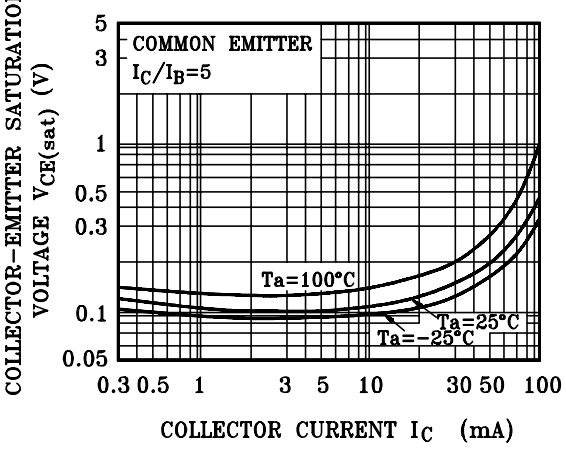
h_{FE} – I_C



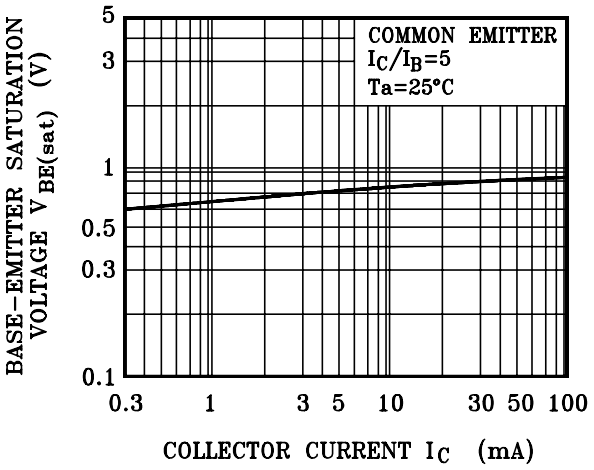
$V_{CE(sat)}$ – I_C



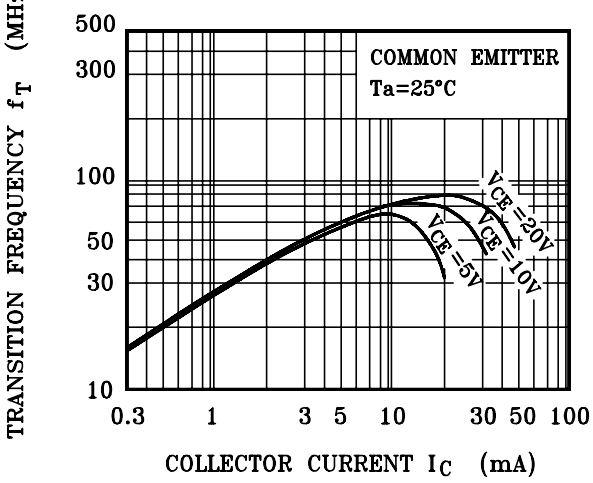
$V_{CE(sat)}$ – I_C



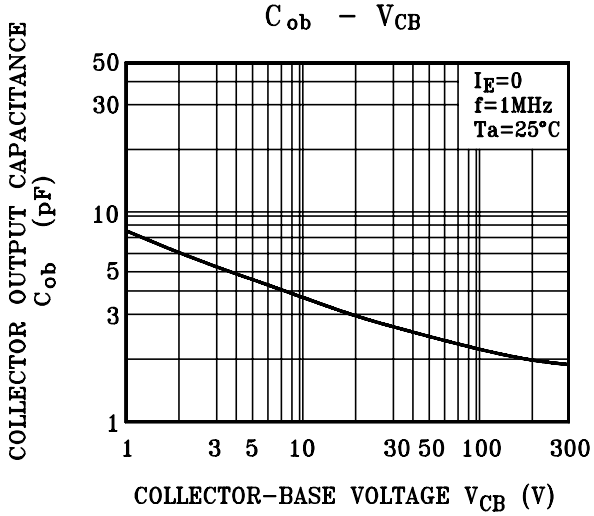
$V_{BE(sat)}$ – I_C



f_T – I_C



C_{ob} – V_{CB}



SAFE OPERATING AREA

