

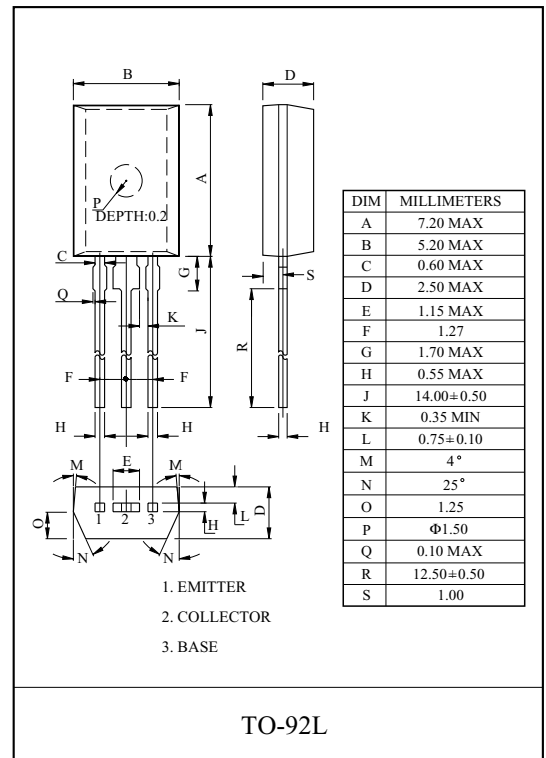
HIGH VOLTAGE SWITCHING APPLICATION.
COLOR TV HORIZONTAL DRIVER APPLICATION.
COLOR TV CHROMA OUTPUT APPLICATION.

FEATURES

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

MAXIMUM RATING (Ta=25 °C)

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	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C

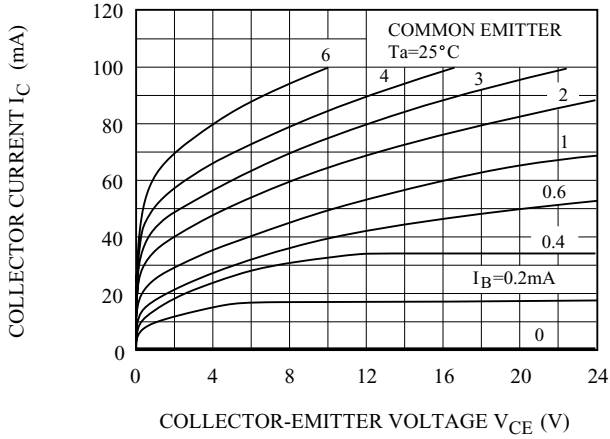


ELECTRICAL CHARACTERISTICS (Ta=25 °C)

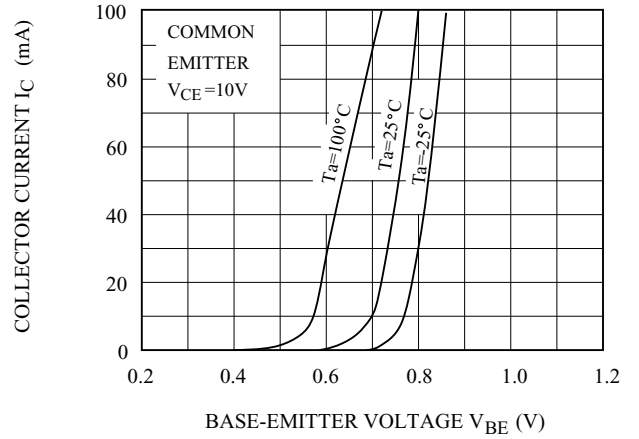
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=240V, I_E=0$	-	-	1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=7V, I_C=0$	-	-	1.0	μA
DC Current Gain	$h_{FE}(1)$	$V_{CE}=10V, I_C=4mA$	20	-	-	
	$*h_{FE}(2)(NOTE)$	$V_{CE}=10V, I_C=20mA$	30	-	240	
Collector-Emitter 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 — :30 ~150, O:120 ~240

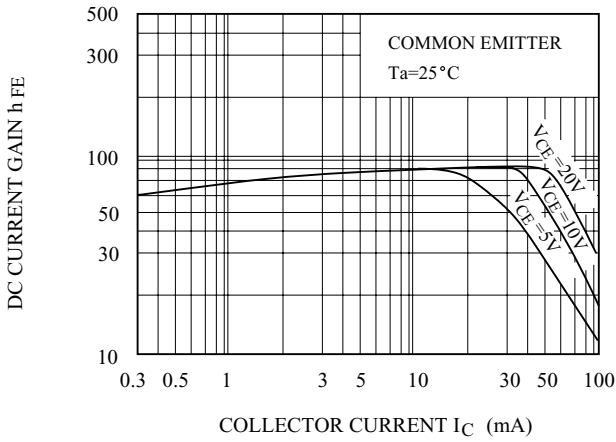
$I_C - V_{CE}$



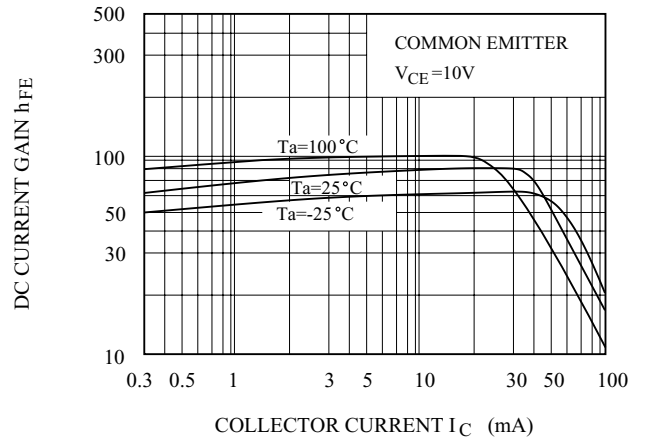
$I_C - V_{BE}$



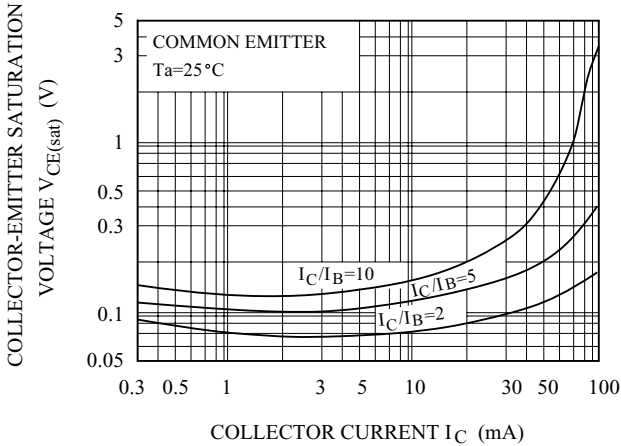
$h_{FE} - I_C$



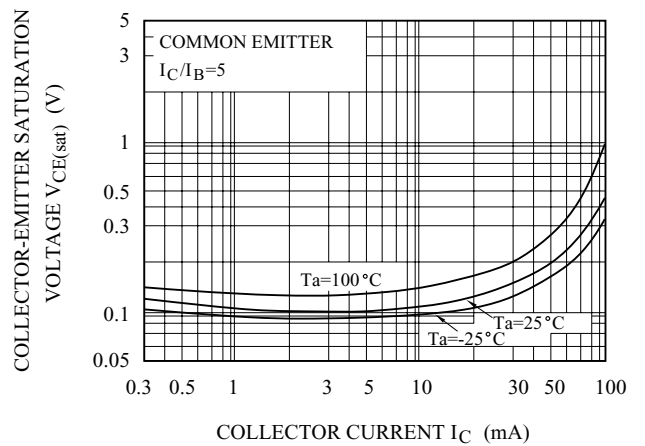
$h_{FE} - I_C$



$V_{CE(sat)} - I_C$

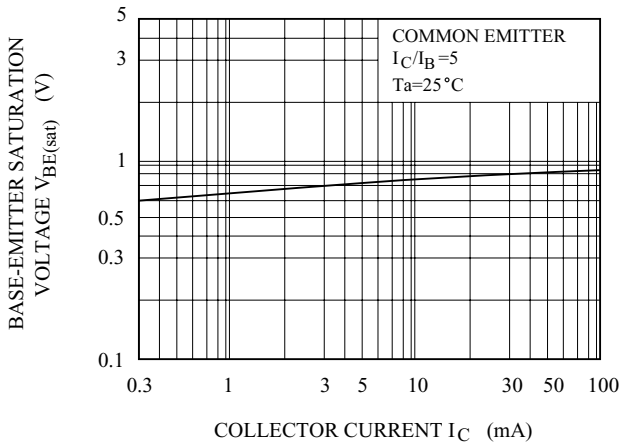


$V_{CE(sat)} - I_C$

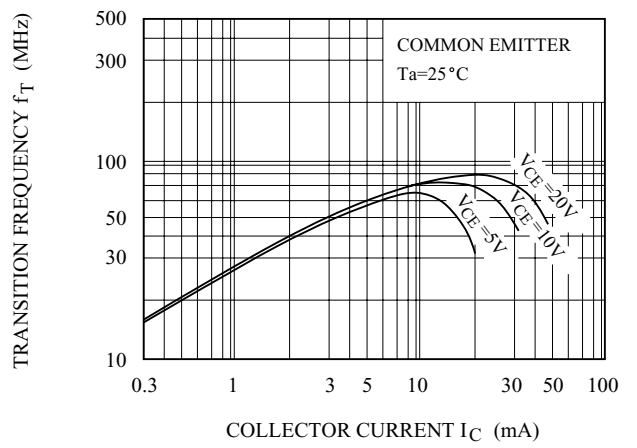


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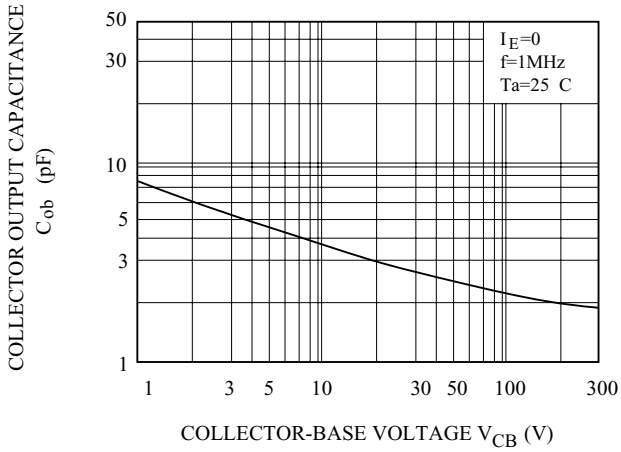
$V_{BE(sat)} - I_C$



$f_T - I_C$



$C_{ob} - V_{CB}$



SAFE OPERATING AREA

