

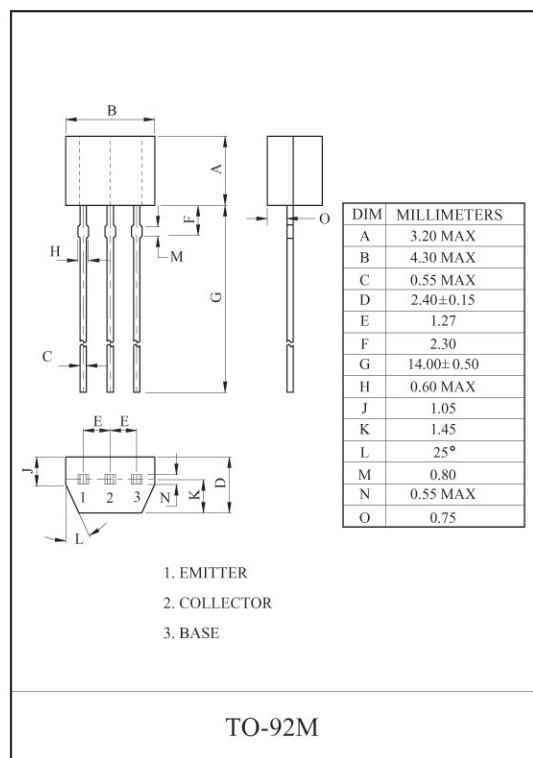
GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

FEATURE

- High DC Current Gain : $h_{FE}=600 \sim 3600$.
- Small Package.

MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	50	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	400	mW
Junction Temperature	T	150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C

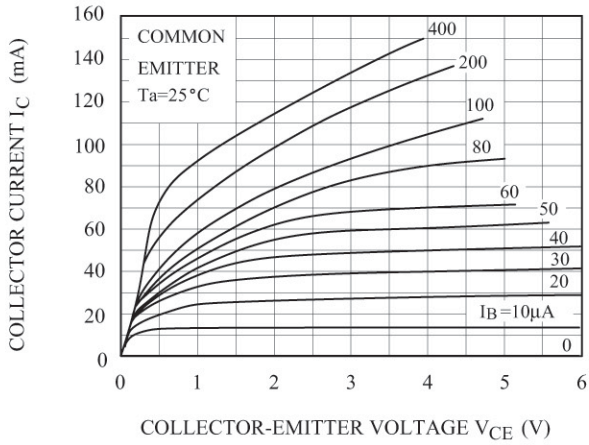


ELECTRICAL CHARACTERISTICS (Ta=25°C)

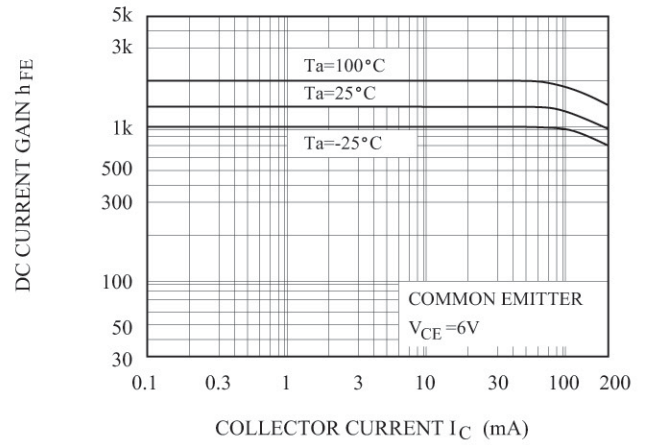
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=50V, I_E=0$	-	-	0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	0.1	μA
DC Current Gain	$h_{FE}(\text{Note})$	$V_{CE}=6V, I_C=2mA$	600	-	3600	
Collector- Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=100mA, I_B=10mA$	-	0.12	0.25	V
Transition Frequency	f_T	$V_{CE}=10V, I_C=10mA$	100	250	-	MH
Collector Output Capacitance	C_o	$V_{CB}=10V, I_E=0, f=1MH$	-	3.5	-	F
Noise Figure	NF(1)	$V_{CE}=6V, I_C=0.1mA, f=100H, R_g=10k \Omega$	-	0.5	-	B
	NF(2)	$V_{CE}=6V, I_C=0.1mA, f=1kHz, R_g=10k \Omega$	-	0.3	-	B

Note: h_{FE} Classification A:600 ~ 1800 , B:1200 ~ 3600

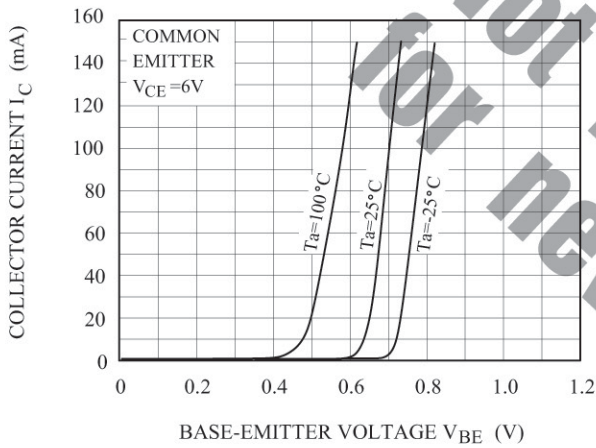
$I_C - V_{CE}$



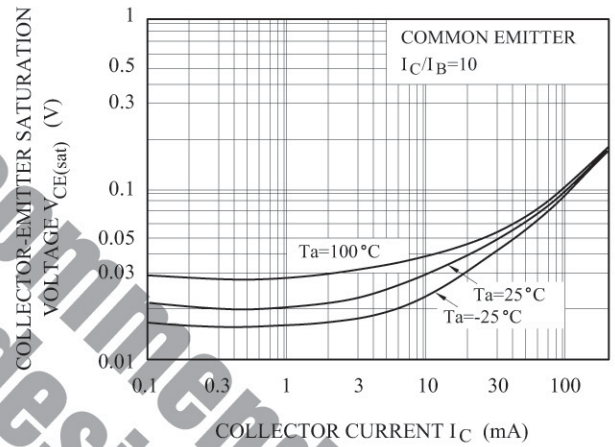
$h_{FE} - I_C$



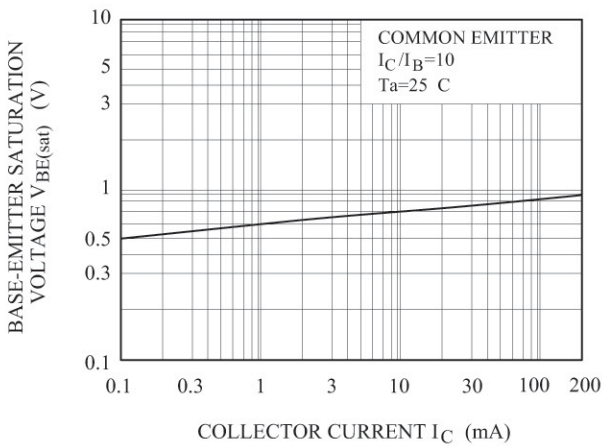
$I_C - V_{BE}$



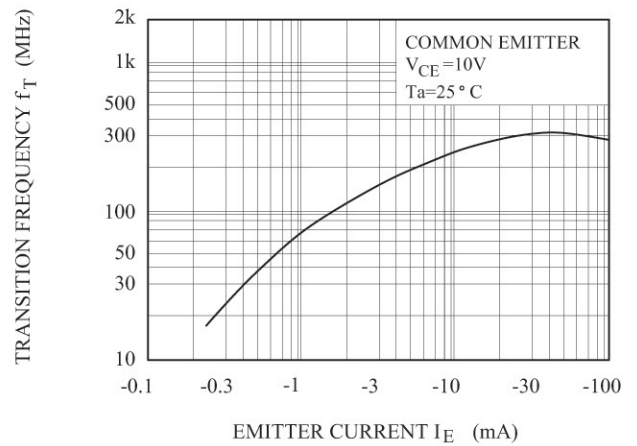
$V_{CE(sat)} - I_C$



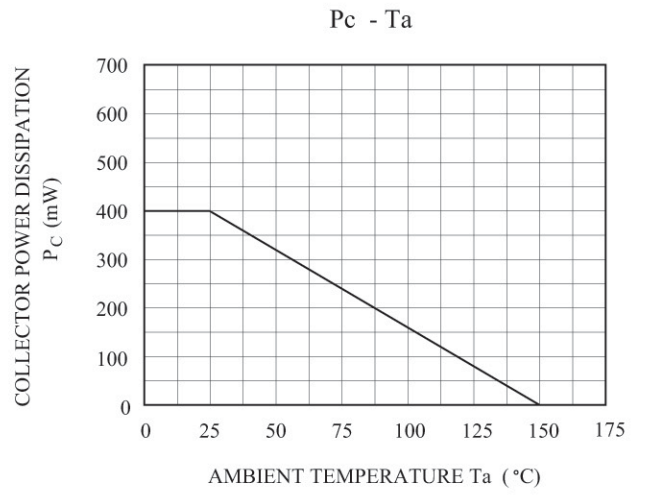
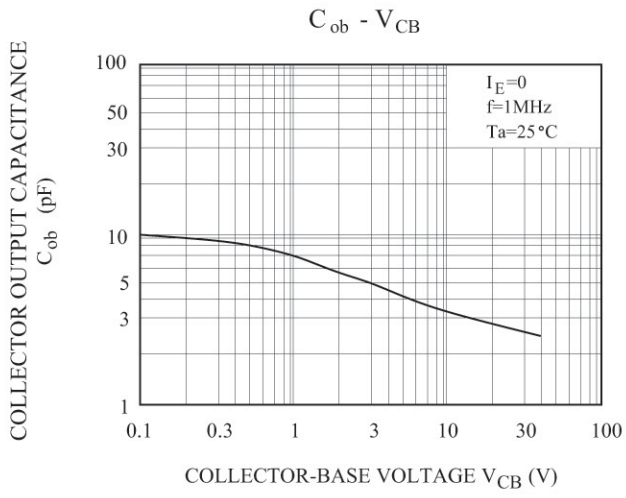
$V_{BE(sat)} - I_C$



$f_T - I_E$



KTC3113



Not recommend
for new design