

GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

FEATURES

- Excellent h_{FE} Linearity
 : $h_{FE}(2)=80(\text{Typ.})$ at $V_{CE}=-6V, I_C=-150\text{mA}$
 : $h_{FE}(I_C=0.1\text{mA})/h_{FE}(I_C=2\text{mA})=0.95(\text{Typ.})$.
- Low Noise : $NF=1\text{dB}(\text{Typ.})$ at $f=1\text{kHz}$.
- Complementary to KTC3198.

MAXIMUM RATING (Ta=25)

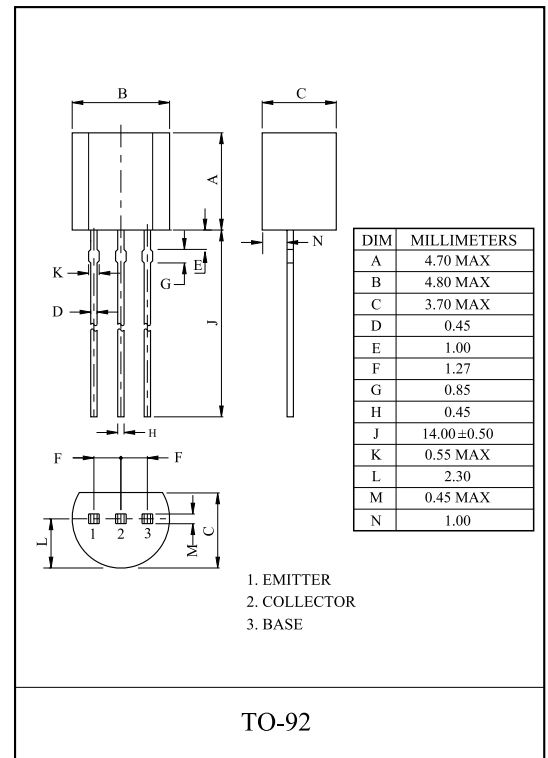
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-50	V
Collector-Emitter Voltage	V_{CEO}	-50	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-150	mA
Base Current	I_B	-50	mA
Collector Power Dissipation	* P_C	625	mW
		400	
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

*Cu Lead-Frame : 625mW
Fe Lead-Frame : 400mW

ELECTRICAL CHARACTERISTICS (Ta=25)

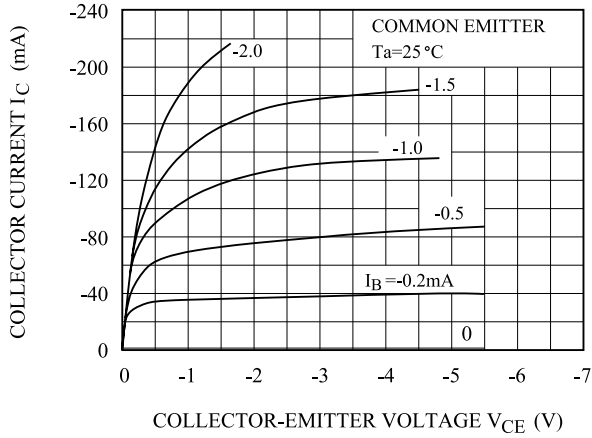
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=-50V, I_E=0$	-	-	-0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5V, I_C=0$	-	-	-0.1	μA
DC Current Gain	$h_{FE}(1)$ (Note)	$V_{CE}=-6V, I_C=-2\text{mA}$	70	-	400	
	$h_{FE}(2)$	$V_{CE}=-6V, I_C=-150\text{mA}$	25	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-100\text{mA}, I_B=-10\text{mA}$	-	-0.1	-0.3	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-100\text{mA}, I_B=-10\text{mA}$	-	-	-1.1	V
Transition Frequency	f_T	$V_{CE}=-10V, I_C=-1\text{mA}$	80	-	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1\text{MHz}$	-	4.0	7.0	pF
Base Intrinsic Resistance	$r_{bb'}$	$V_{CB}=-10V, I_E=1\text{mA}, f=30\text{MHz}$	-	30	-	
Noise Figure	NF	$V_{CE}=-6V, I_C=-0.1\text{mA}, R_g=10k, f=1\text{kHz}$	-	1.0	10	dB

Note : $h_{FE}(1)$ Classification O:70 140, Y:120 240, GR:200 400

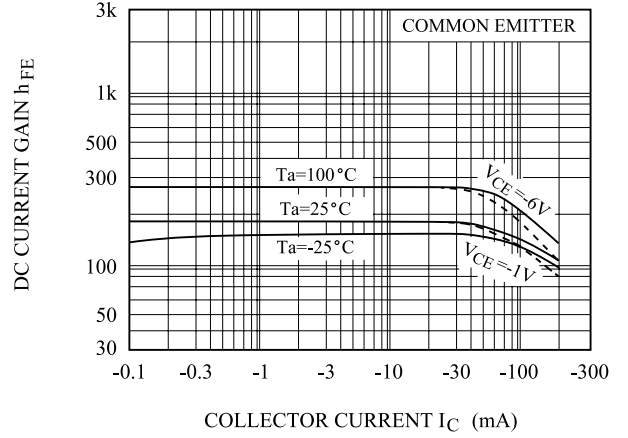


KTA1266

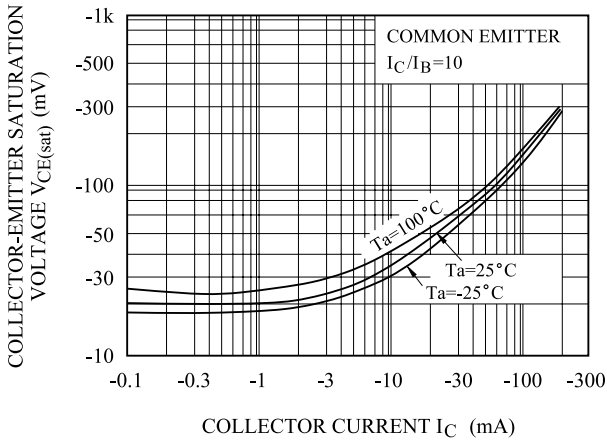
$I_C - V_{CE}$



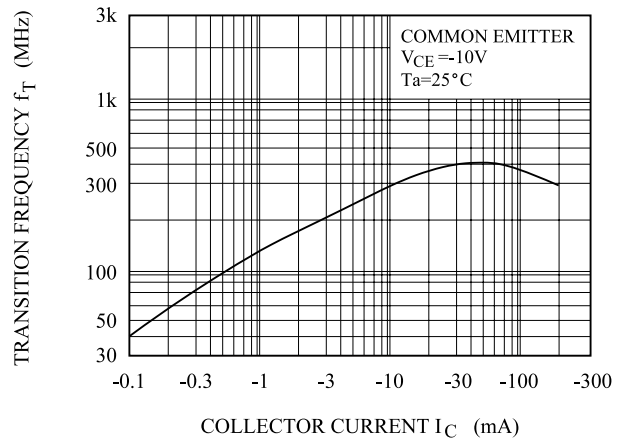
$h_{FE} - I_C$



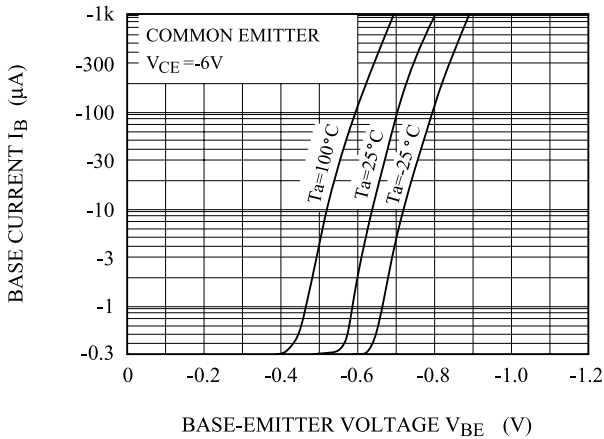
$V_{CE(sat)} - I_C$



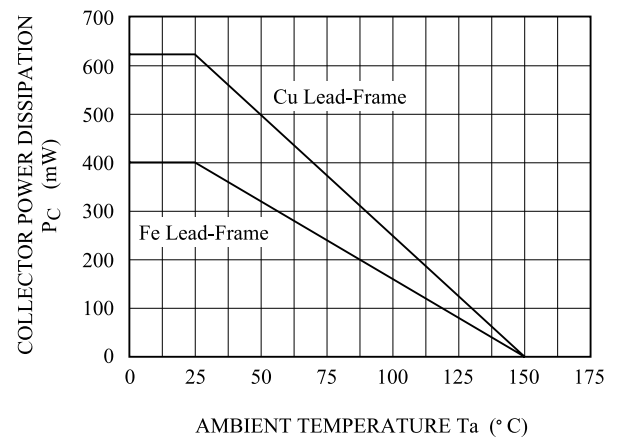
$f_T - I_C$



$I_B - V_{BE}$



$P_C - T_a$



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