

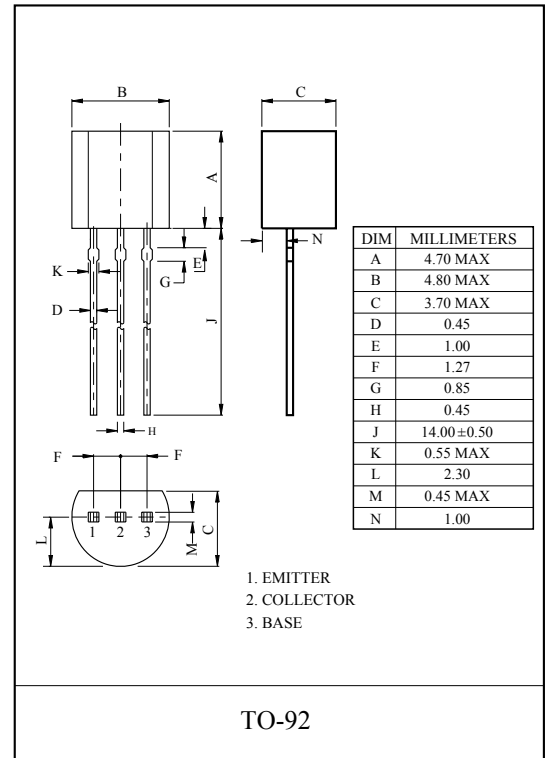
POWER AMPLIFIER APPLICATION.
POWER SWITCHING APPLICATION.

FEATURES

- Low Saturation Voltage.
: $V_{CE(sat)} = -0.5V(\text{Max.})$ at $I_C = -2A$
- Complementary to KTC3266.

MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-20	V
Collector-Emitter Voltage	V_{CEO}	-20	V
Emitter-Base Voltage	V_{EBO}	-6	V
Collector Current	I_C	-2	A
Base Current	I_B	-0.5	A
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C



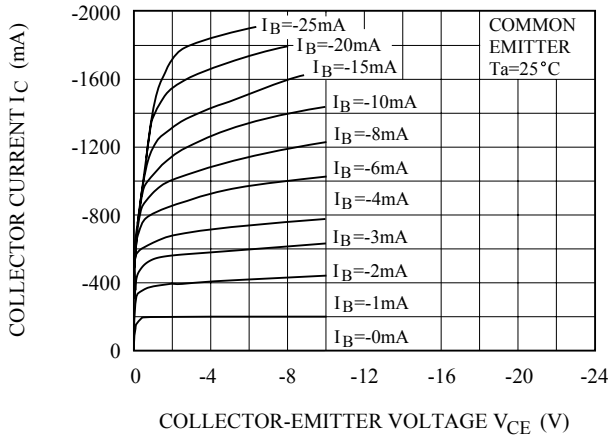
ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -20V, I_E = 0$	-	-	-0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -6V, I_C = 0$	-	-	-0.1	μA
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE} = -2V, I_C = -0.1A$	120	-	400	
	$h_{FE(2)}$	$V_{CE} = -2V, I_C = -2A$	40	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -2A, I_B = -0.1A$	-	-	-0.5	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -2V, I_C = -0.1A$	-	-	-0.85	V
Transition Frequency	f_T	$V_{CE} = -2V, I_C = -0.5A$	-	120	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$	-	40	-	pF

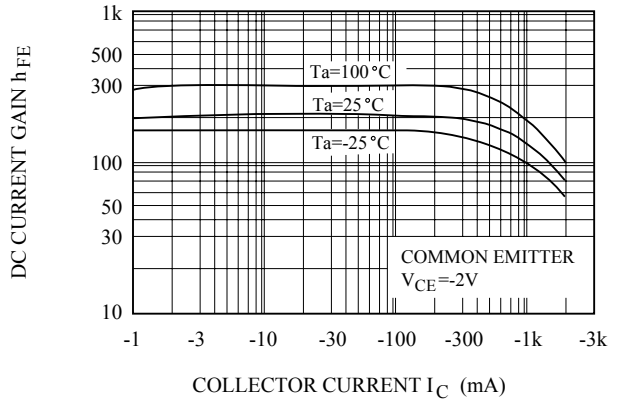
Note : $h_{FE(1)}$ Classification Y:120 ~ 240, GR:200 ~ 400

KTA1296

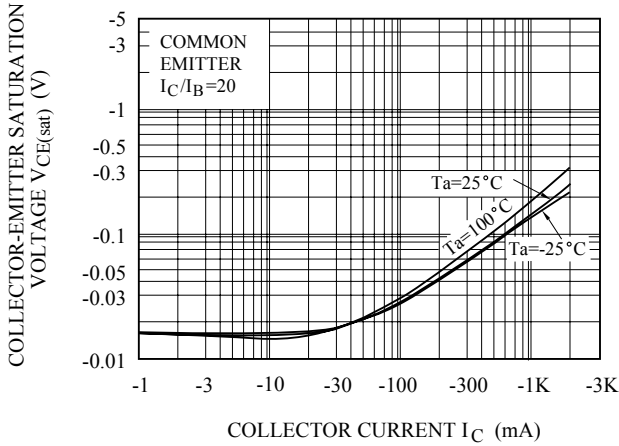
$I_C - V_{CE}$



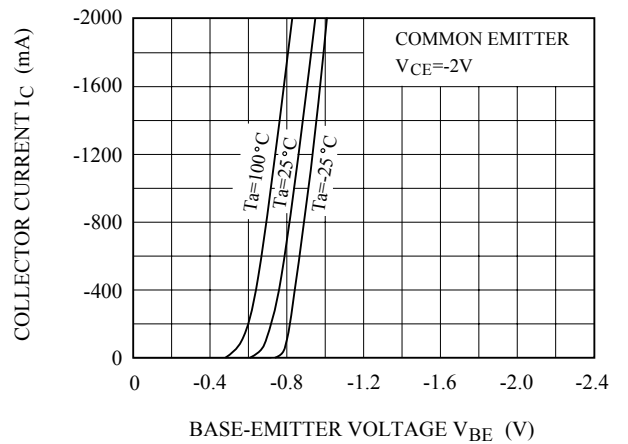
$h_{FE} - I_C$



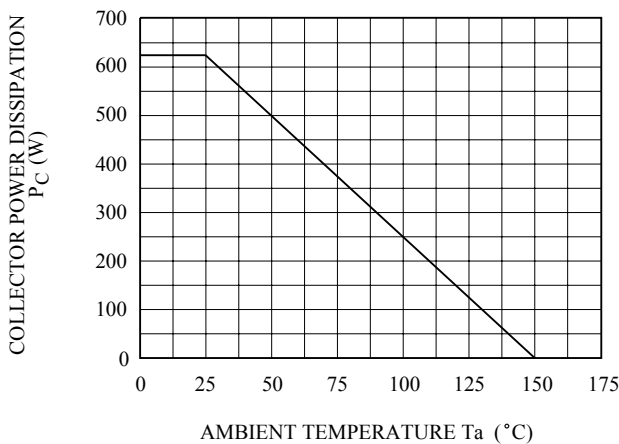
$V_{CE(sat)} - I_C$



$I_C - V_{BE}$



$P_c - T_a$



SAFE OPERATING AREA

