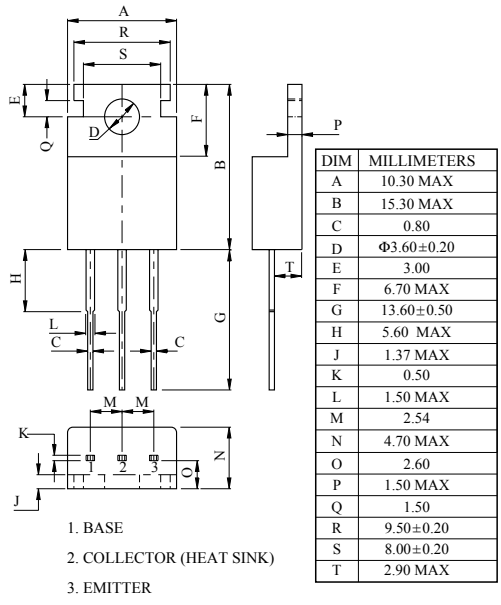
HIGH POWER AMPLIFIER APPLICATION.

FEATURES

- Complementary to KTC4512.
- Recommended for 30W ~ 35W Audio Frequency Amplifier Output Stage.



DIM	MILLIMETERS
A	10.30 MAX
B	15.30 MAX
C	0.80
D	Φ3.60±0.20
E	3.00
F	6.70 MAX
G	13.60±0.50
H	5.60 MAX
J	1.37 MAX
K	0.50
L	1.50 MAX
M	2.54
N	4.70 MAX
O	2.60
P	1.50 MAX
Q	1.50
R	9.50±0.20
S	8.00±0.20
T	2.90 MAX

TO-220AB

MAXIMUM RATING (Ta=25℃)

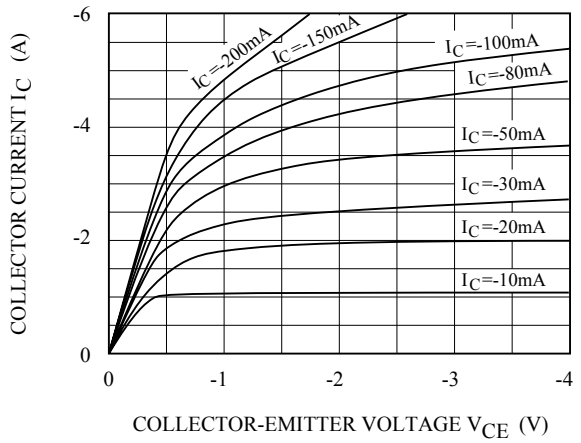
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-80	V
Collector-Emitter Voltage	V_{CEO}	-80	V
Emitter-Base Voltage	V_{EBO}	-6	V
Collector Current	I_C	-6	A
Base Current	I_B	-3	A
Collector Power Dissipation (Tc=25℃)	P_C	50	W
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55 ~ 150	℃

ELECTRICAL CHARACTERISTICS (Ta=25℃)

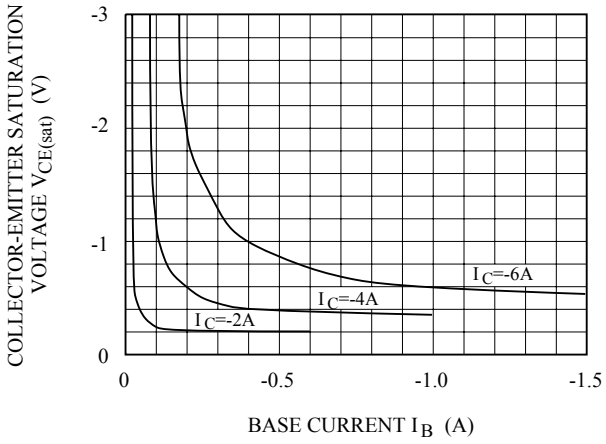
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB}=-80V, I_E=0	-	-	-10	μA
Emitter Cut-off Current	I_{EBO}	V_{EB}=-6V, I_C=0	-	-	-10	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C=-25mA, I_B=0	-80	-	-	V
DC Current Gain	h_{FE}(Note)	V_{CE}=-4V, I_C=-2A	55	-	160	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-2A, I_B=-0.2A	-	-	-0.5	V
Transition Frequency	f_T	V_{CE}=-12V, I_C=-0.5A	-	20	-	MHz
Collector Output Capacitance	C_{ob}	V_{CB}=-10V, I_E=0, f=1MHz	-	150	-	pF

Note : h_{FE} Classification R:55~110, O:80~160.

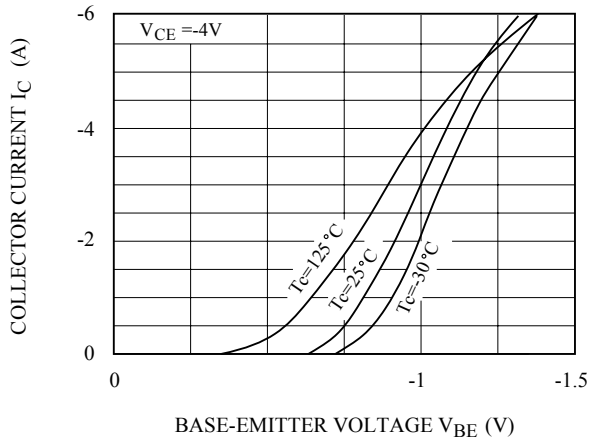
I_C - V_{CE}



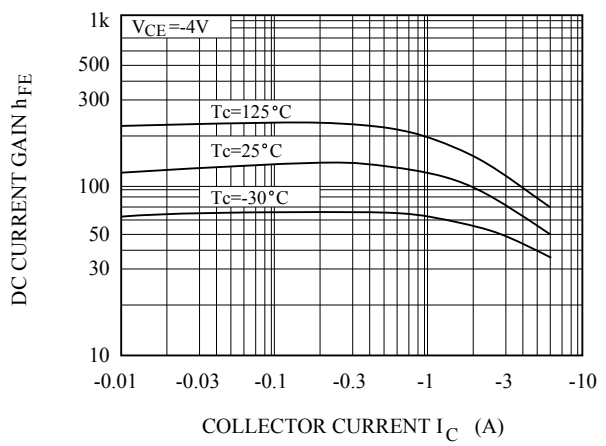
$V_{CE(sat)}$ - I_B



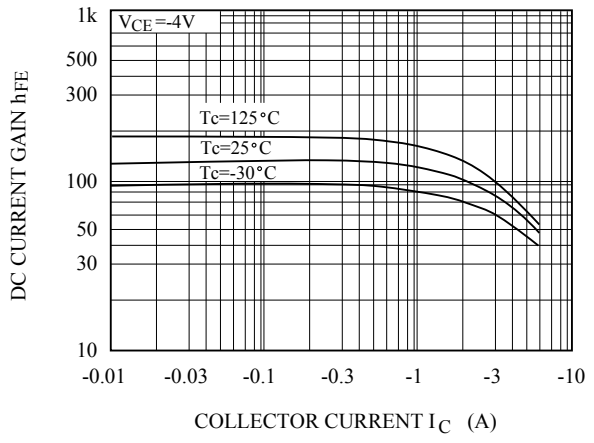
I_C - V_{BE}



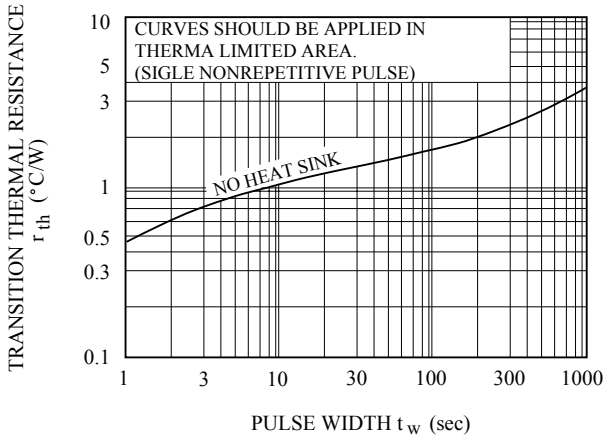
h_{FE} - I_C



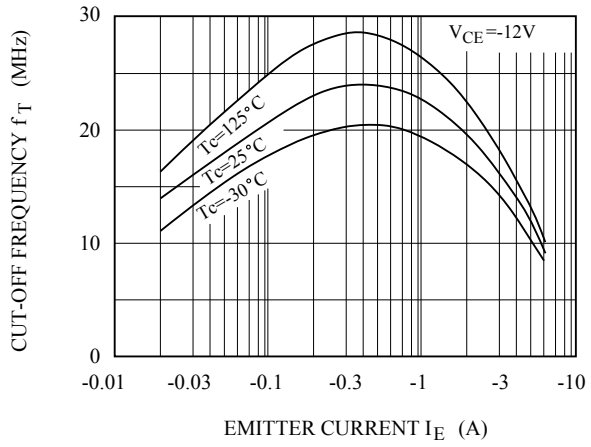
h_{FE} - I_C



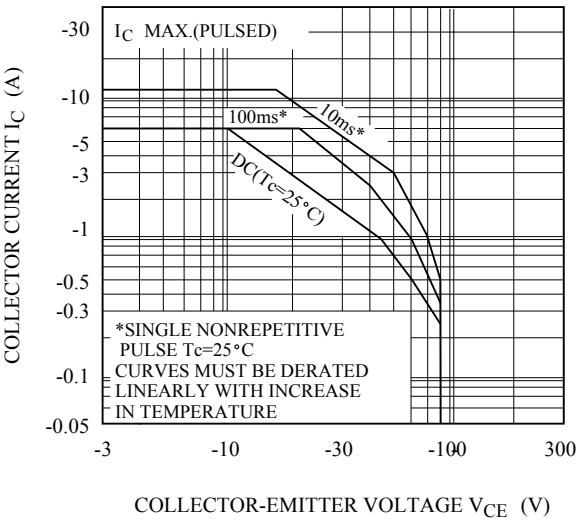
r_{th} - t_w



f_T - I_E



SAFE OPERATING AREA



Pc - Ta