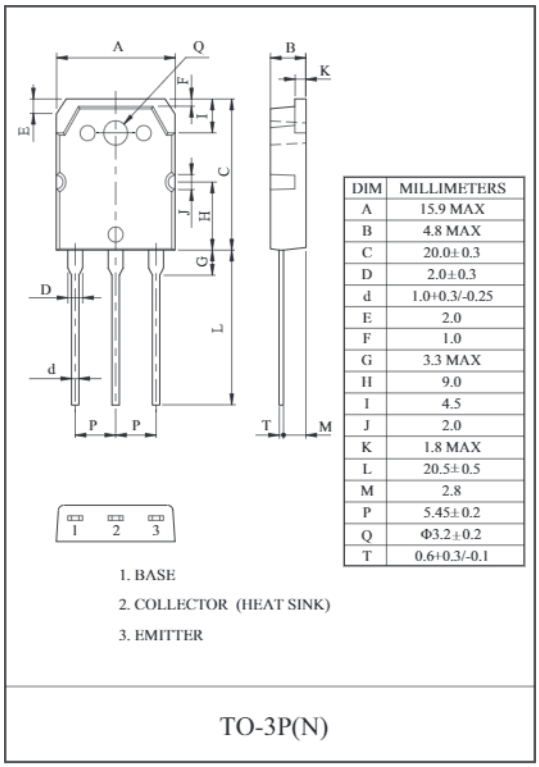
HIGH POWER AMPLIFIER APPLICATION.

FEATURES

- Complementary to KTD1047.
- Recommended for 60W Audio Frequency Amplifier Output Stage.



DIM	MILLIMETERS
A	15.9 MAX
B	4.8 MAX
C	20.0±0.3
D	2.0±0.3
d	1.0+0.3/-0.25
E	2.0
F	1.0
G	3.3 MAX
H	9.0
I	4.5
J	2.0
K	1.8 MAX
L	20.5±0.5
M	2.8
P	5.45±0.2
Q	Φ3.2±0.2
T	0.6+0.3/-0.1

TO-3P(N)

MAXIMUM RATING (Ta=25℃)

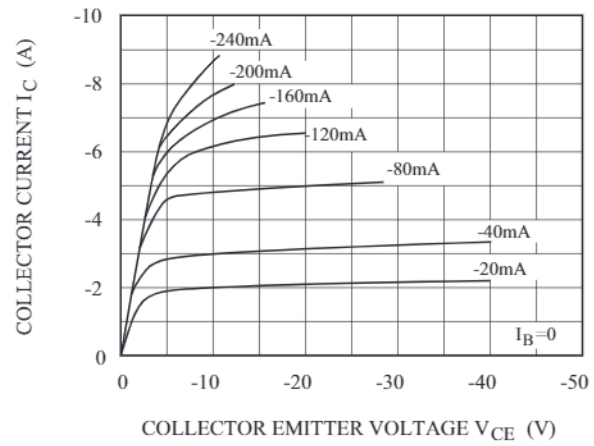
CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-160	V
Collector-Emitter Voltage		V_{CEO}	-140	V
Emitter-Base Voltage		V_{EBO}	-6	V
Collector Current	DC	I_C	-12	A
	Pulse	I_{CP}	-15	
Collector Power Dissipation (Tc=25℃)		P_C	100	W
Junction Temperature		T_j	150	℃
Storage Temperature Range		T_{stg}	-55 ~ 150	℃

ELECTRICAL CHARACTERISTICS (Ta=25℃)

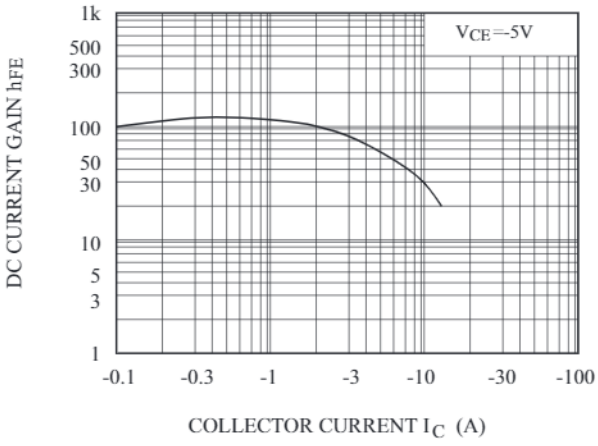
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB}=-80V, I_E=0	-	-	-0.1	mA
Emitter Cut-off Current	I_{EBO}	V_{EB}=-4V, I_C=0	-	-	-0.1	mA
DC Current Gain	h_{FE} (1) (Note)	V_{CE}=-5V, I_C=-1A	60	-	200	
	h_{FE} 2	V_{CE}=-5V, I_C=-6A	20	-		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-5A, I_B=-0.5A	-	-	-2.5	V
Base-Emitter Voltage	V_{BE}	V_{CE}=-5V, I_C=-1A	-	-	-1.5	V
Transition Frequency	f_T	V_{CE}=-5V, I_C=-1A	-	15	-	MHz
Output Capacitance	C_{ob}	V_{CB}=-10V, I_E=0, f=1MHz	-	300	-	pF
Turn On Time	t_{on}	V_{CC}=-20V	-	0.25	-	μS
Fall Time	t_f	I_C=1A=10 · I_{B1}=-10 · I_{B2}	-	0.53	-	
Storage Time	t_{stg}	R_L=20Ω	-	1.61	-	

Note : h_{FE}(1) Classification O:60 ~ 120, Y:100 ~ 200

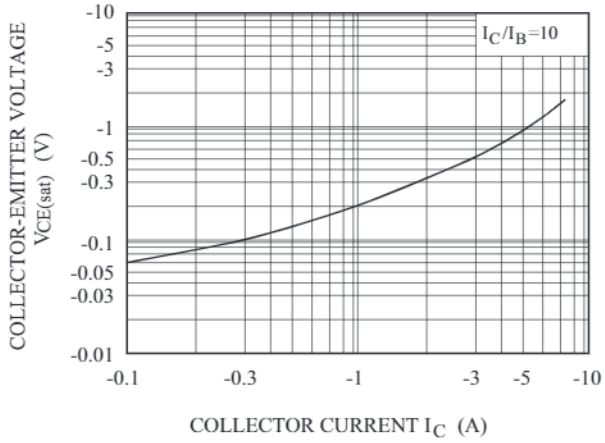
I_C - V_{CE}



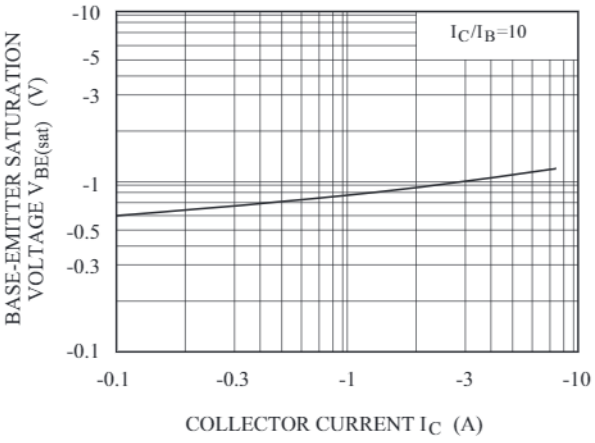
h_{FE} - I_C



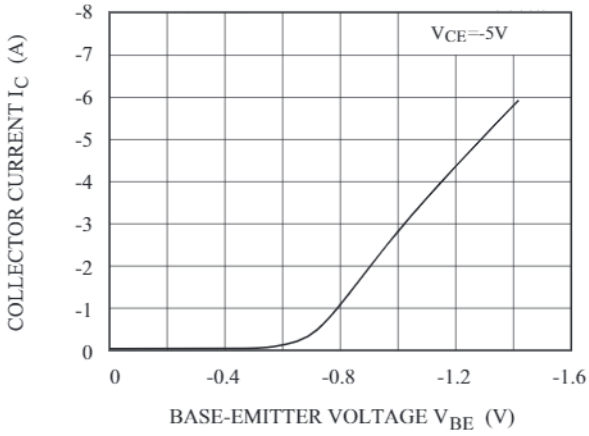
$V_{CE(sat)}$ - I_C



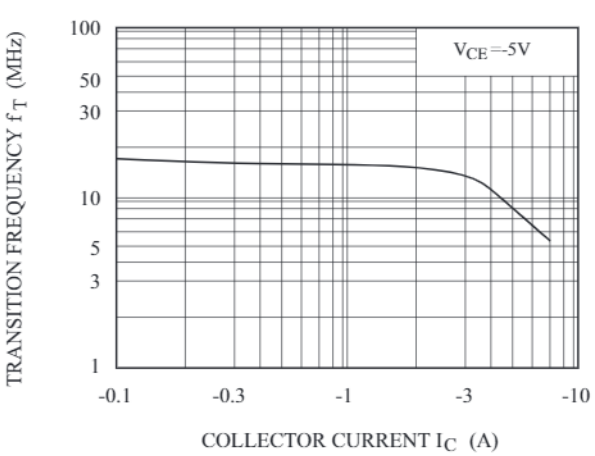
$V_{BE(sat)}$ - I_C



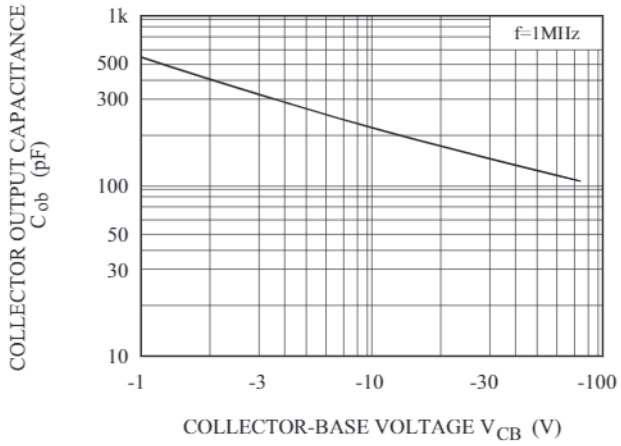
I_C - V_{BE}



f_T - I_C



C_{ob} - V_{CB}



SAFE OPERATING AREA

