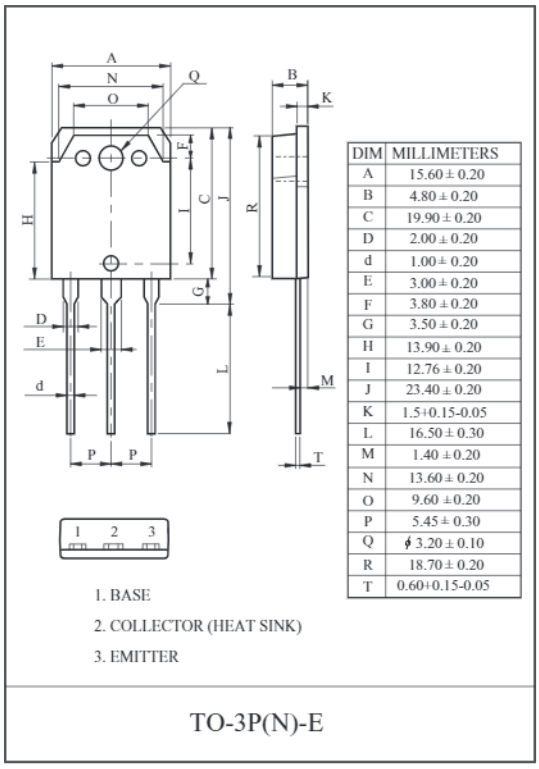
HIGH POWER AMPLIFIER APPLICATION.

FEATURES

· Recommended for 45～50W Audio Frequency Amplifier Output Stage.

· Complementary to KTB688B.



DIM	MILLIMETERS
A	15.60 ± 0.20
B	4.80 ± 0.20
C	19.90 ± 0.20
D	2.00 ± 0.20
d	1.00 ± 0.20
E	3.00 ± 0.20
F	3.80 ± 0.20
G	3.50 ± 0.20
H	13.90 ± 0.20
I	12.76 ± 0.20
J	23.40 ± 0.20
K	1.5+0.15-0.05
L	16.50 ± 0.30
M	1.40 ± 0.20
N	13.60 ± 0.20
O	9.60 ± 0.20
P	5.45 ± 0.30
Q	φ 3.20 ± 0.10
R	18.70 ± 0.20
T	0.60+0.15-0.05

TO-3P(N)-E

MAXIMUM RATING (Ta=25℃)

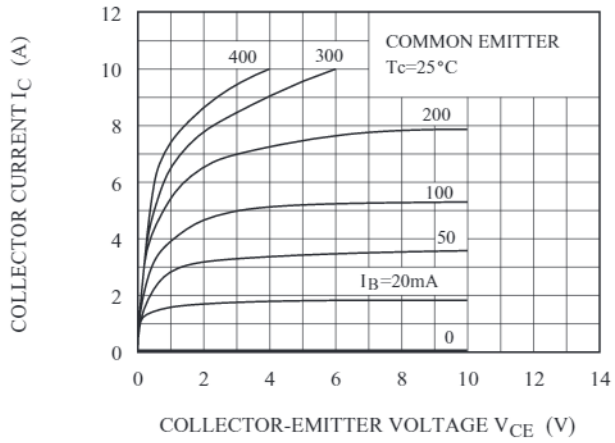
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	120	V
Collector-Emitter Voltage	V_{CEO}	120	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	10	A
Base Current	I_B	1	A
Collector Power Dissipation (Tc=25℃)	P_C	80	W
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55～150	℃

ELECTRICAL CHARACTERISTICS (Ta=25℃)

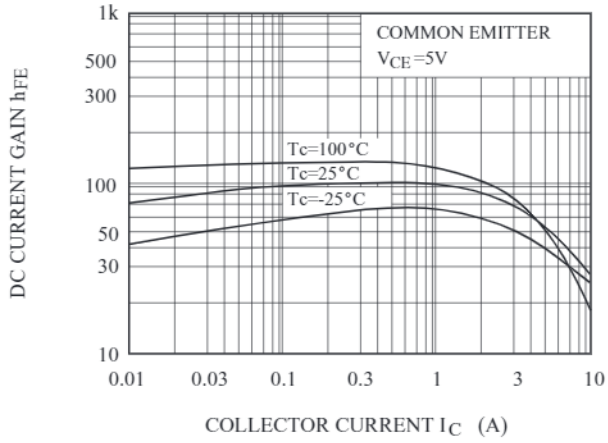
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB}=120V, I_E=0	-	-	10	μA
Emitter Cut-off Current	I_{EBO}	V_{EB}=5V, I_C=0	-	-	10	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C=50mA, I_B=0	120	-	-	V
DC Current Gain	h_{FE} (Note)	V_{CE}=5V, I_C=1A	55	-	160	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=6A, I_B=0.6A	-	-	2.0	V
Base-Emitter Voltage	V_{BE}	V_{CE}=5V, I_C=5A	-	-	1.5	V
Transition Frequency	f_T	V_{CE}=5V, I_C=1A	-	12	-	MHz
Collector Output Capacitance	C_{ob}	V_{CB}=10V, I_E=0, f=1MHz	-	170	-	pF

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

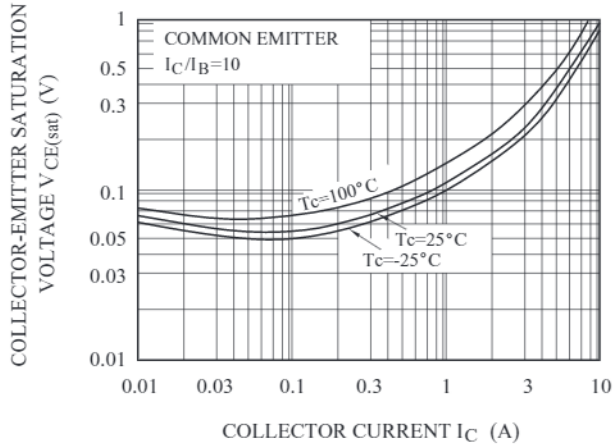
I_C - V_{CE}



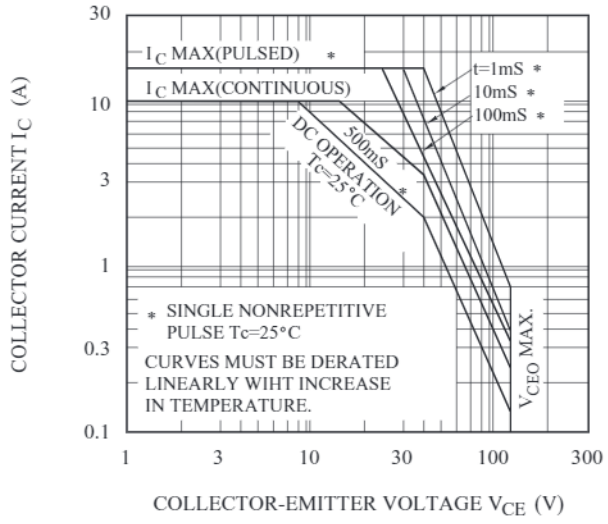
h_{FE} - I_C



$V_{CE(sat)}$ - I_C



SAFE OPERATING AREA



Pc - Ta

