

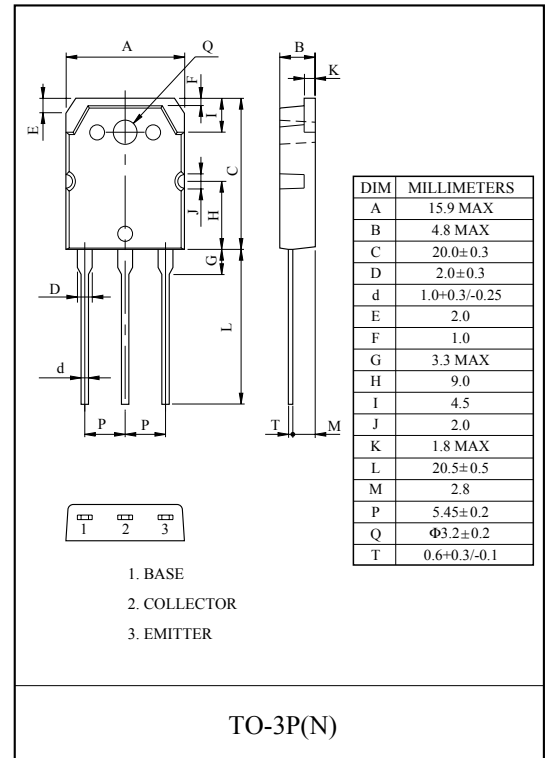
HIGH POWER AMPLIFIER APPLICATION.

FEATURES

- Recommended for 45 ~ 50W Audio Frequency Amplifier Output Stage.
- Complementary to KTB688.

MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CB0}	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°C)	P _C	80	W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-55 ~ 150	°C



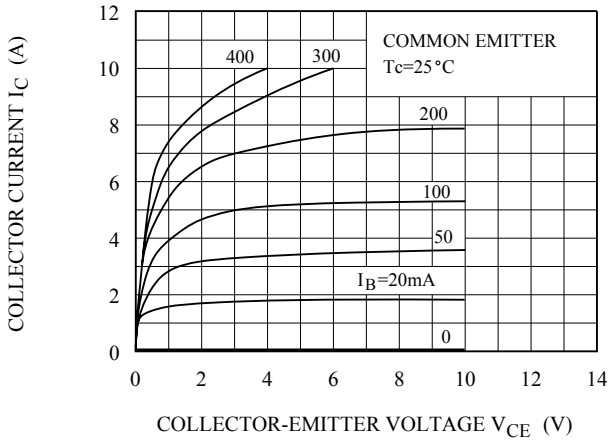
ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CB0}	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

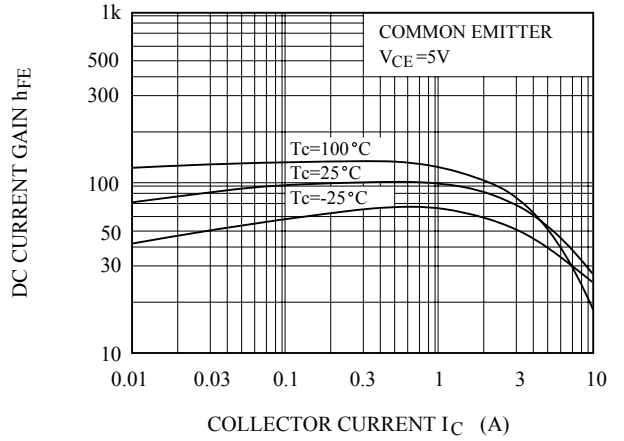
Note : h_{FE} Classification R:55 ~ 110, O:80 ~ 160

KTD718

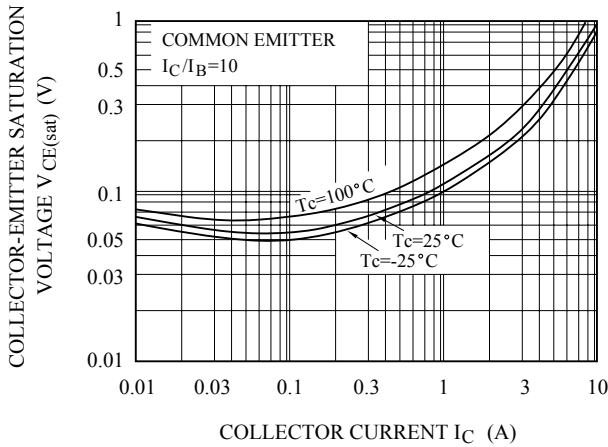
$I_C - V_{CE}$



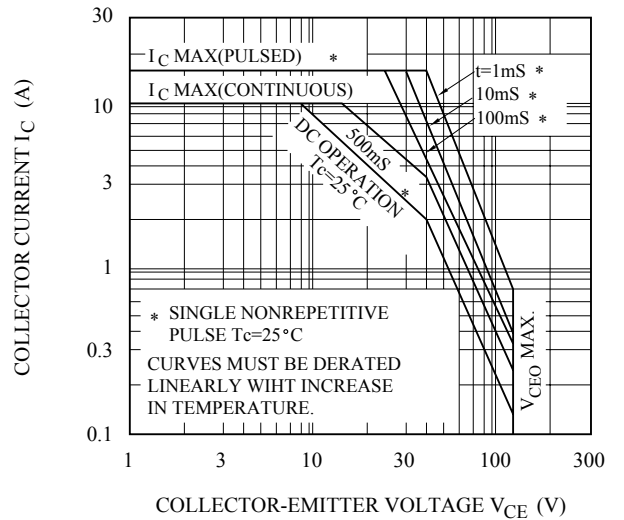
$h_{FE} - I_C$



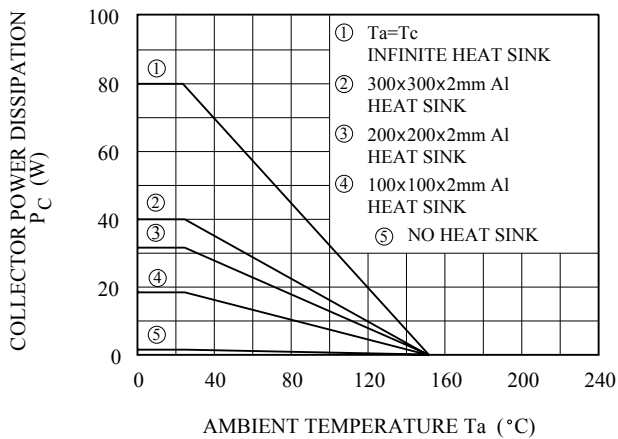
$V_{CE(sat)} - I_C$



SAFE OPERATING AREA



$P_c - T_a$



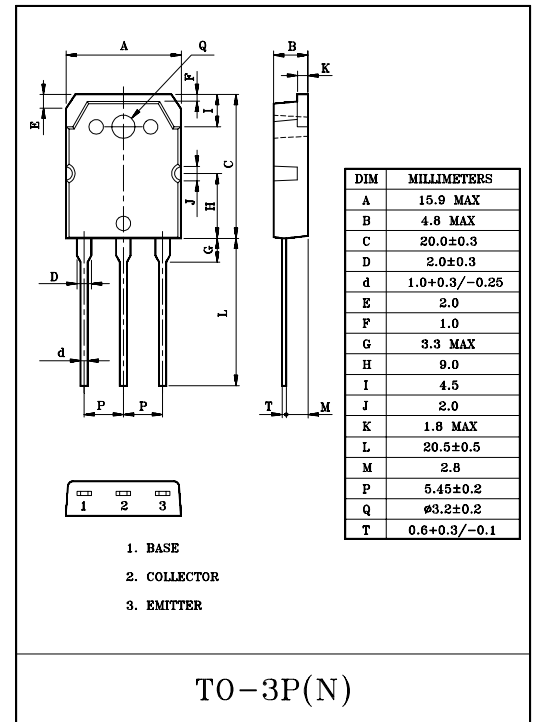
HIGH POWER AMPLIFIER APPLICATION.

FEATURES

- Complementary to KTD718.
- Recommended for 45~50W Audio Frequency Amplifier Output Stage.

MAXIMUM RATINGS (Ta=25°C)

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°C)	P_C	80	W
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}	$V_{CB}=-120V, I_E=0$	-	-	-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	$h_{FE}(\text{Note})$	$V_{CE}=-5V, I_C=-1A$	55	-	160	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-5A, I_B=-0.5A$	-	-	-2.5	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=-5V, I_C=-5A$	-	-	-1.5	V
Transition Frequency	f_T	$V_{CE}=-5V, I_C=-1A$	-	10	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$	-	280	-	pF

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

