

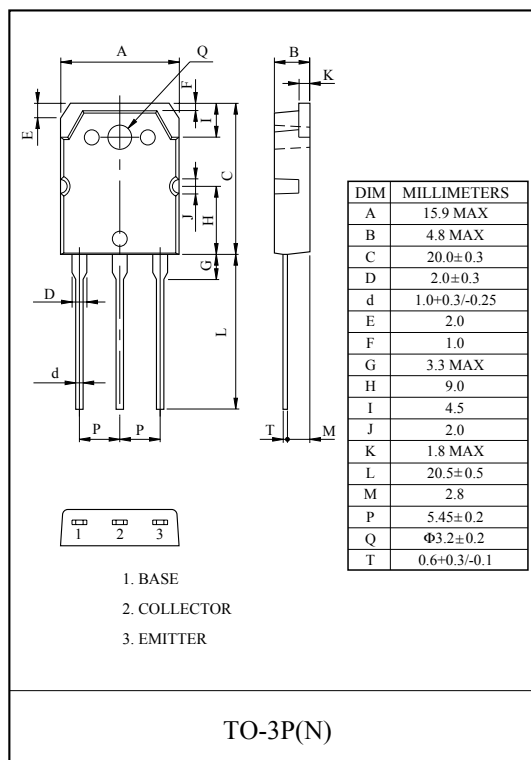
POWER AMPLIFIER APPLICATIONS.

FEATURES

- High Collector Voltage : $V_{CE0}=-230V(\text{Min.})$
- Complementary to KTC5242.
- Recommended for 80W High Fidelity Audio Frequency Amplifier Output Stage.

MAXIMUM RATING ($T_a=25^{\circ}\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-230	V
Collector-Emitter Voltage	V_{CEO}	-230	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-15	A
Base Current	I_B	-1.5	A
Collector Power Dissipation ($T_c=25^{\circ}\text{C}$)	P_C	130	W
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^{\circ}\text{C}$



ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=-230V, I_E=0$	-	-	-5.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5V, I_C=0$	-	-	-5.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-50\text{mA}, I_B=0$	-230	-	-	V
DC Current Gain	$h_{FE}(1)$ (Note)	$V_{CE}=-5V, I_C=-1A$	55	-	160	
	$h_{FE}(2)$	$V_{CE}=-5V, I_C=-7A$	35	60	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-8A, I_B=-0.8A$	-	-1.5	-3.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=-5V, I_C=-7A$	-	-1.0	-1.5	V
Transition Frequency	f_T	$V_{CE}=-5V, I_C=-1A$	-	30	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1\text{MHz}$	-	360	-	pF

Note : $h_{FE}(1)$ Classification R:55 ~ 110 , O:80 ~ 160

