

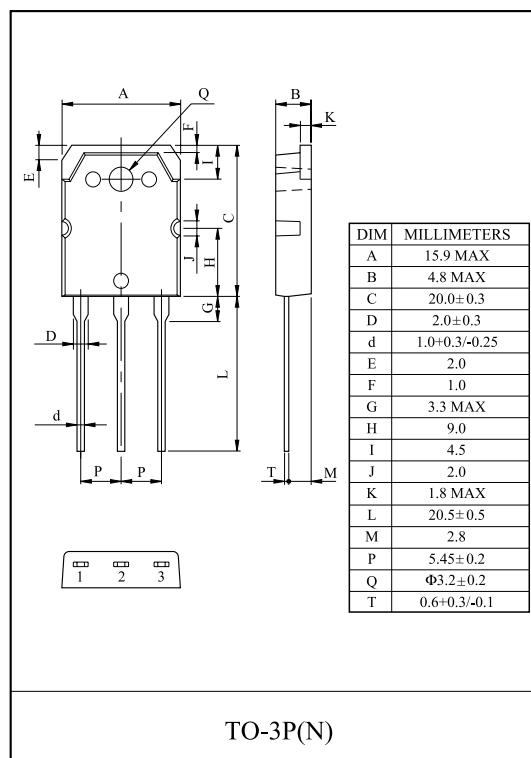
POWER AMPLIFIER APPLICATIONS.

FEATURES

- Complementary to KTA1943N.
- Recommended for 100W High Fidelity Audio Frequency Amplifier Output Stage.

MAXIMUM RATING (Ta=25)

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 (Tc=25)	P_C	150	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}	$V_{CB}=230V, I_E=0$	-	-	5.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	5.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=50mA, I_B=0$	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	$V_{CE(sat)}$	$I_C=8A, I_B=800mA$	-	0.40	3.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=5V, I_C=7A$	-	0.9	1.5	V
Transition Frequency	f_T	$V_{CE}=5V, I_C=1A$	-	30	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	-	200	-	pF

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

KTC5200N

