

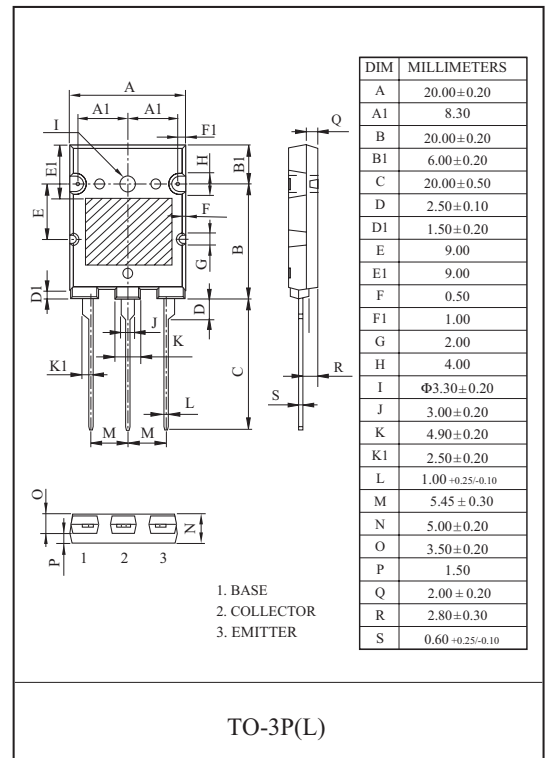
### POWER AMPLIFIER APPLICATIONS.

#### FEATURES

- Complementary to KTA1943A.
- Recommended for 100W High Fidelity Audio Frequency Amplifier Output Stage.

#### MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V <sub>CB0</sub>	230	V
Collector-Emitter Voltage	V <sub>CE0</sub>	230	V
Emitter-Base Voltage	V <sub>EBO</sub>	5	V
Collector Current	I <sub>C</sub>	15	A
Base Current	I <sub>B</sub>	1.5	A
Collector Power Dissipation (Tc=25 °C)	P <sub>C</sub>	150	W
Junction Temperature	T <sub>j</sub>	150	
Storage Temperature Range	T <sub>stg</sub>	-55 150	



#### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I <sub>CB0</sub>	V <sub>CB</sub> =230V, I <sub>E</sub> =0	-	-	5.0	μA
Emitter Cut-off Current	I <sub>EBO</sub>	V <sub>EB</sub> =5V, I <sub>C</sub> =0	-	-	5.0	μA
Collector-Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =50mA, I <sub>B</sub> =0	230	-	-	V
DC Current Gain	h <sub>FE</sub> (1) (Note)	V <sub>CE</sub> =5V, I <sub>C</sub> =1A	55	-	160	
	h <sub>FE</sub> (2)	V <sub>CE</sub> =5V, I <sub>C</sub> =7A	35	60	-	
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =8A, I <sub>B</sub> =800mA	-	0.40	3.0	V
Base-Emitter Voltage	V <sub>BE</sub>	V <sub>CE</sub> =5V, I <sub>C</sub> =7A	-	1.0	1.5	V
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> =5V, I <sub>C</sub> =1A	-	30	-	MHz
Collector Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> =10V, I <sub>E</sub> =0, f=1MHz	-	200	-	pF

Note : h<sub>FE</sub> Classification R:55~110, O:80~160.

# KTC5200A

