

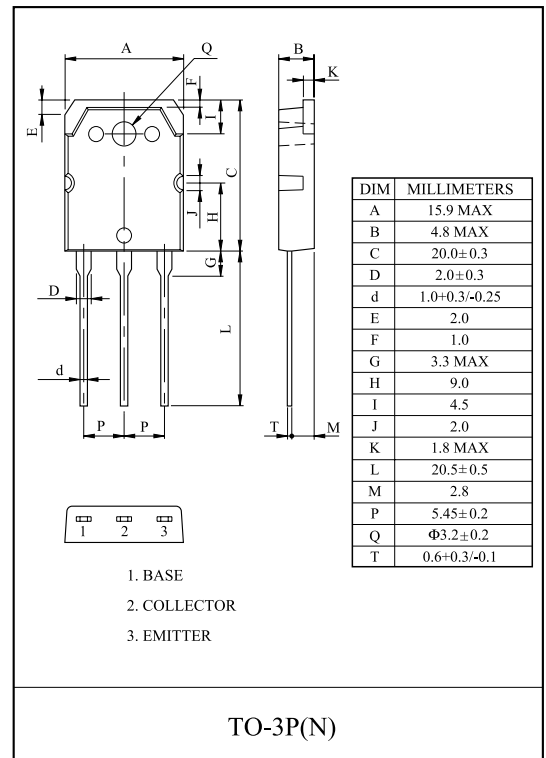
HIGH POWER AMPLIFIER APPLICATION.

### FEATURES

- Recommended for 55W Audio Frequency Amplifier Output Stage.
- Complementary to KTA1940.

### MAXIMUM RATING (Ta=25 )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CB0}$	120	V
Collector-Emitter Voltage	$V_{CE0}$	120	V
Emitter-Base Voltage	$V_{EB0}$	5	V
Collector Current	$I_C$	10	A
Base Current	$I_B$	0.8	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	$I_{CB0}$	$V_{CB}=120V, I_E=0$	-	-	5.0	$\mu A$
Emitter Cut-off Current	$I_{EB0}$	$V_{EB}=5V, I_C=0$	-	-	5.0	$\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C=50mA, I_B=0$	120	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE}=5V, I_C=1A$	55	-	160	
	$h_{FE(2)}$	$V_{CE}=5V, I_C=4A$	35	75	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=6A, I_B=0.6A$	-	0.35	2.0	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=5V, I_C=4A$	-	0.95	1.5	V
Transition Frequency	$f_T$	$V_{CE}=5V, I_C=1A$	-	30	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	120	-	pF

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

# KTC5197

