

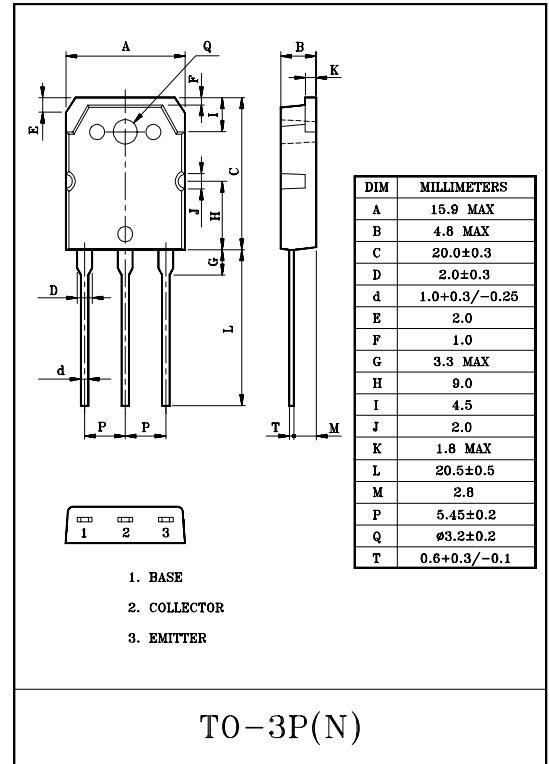
HIGH POWER AMPLIFIER APPLICATION.

FEATURES

- Recommended for 75W Audio Frequency Amplifier Output Stage.
- Complementary to TIP36C.
- I_{cmax} :25A.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	100	V
Collector-Emitter Voltage	V_{CEO}	100	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	25	A
Base Current	I_B	5.0	A
Collector Power Dissipation ($T_c=25^\circ\text{C}$)	P_C	125	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}	$V_{CB}=100V, I_E=0$	-	-	10	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	10	μA
Collector-emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=50mA, I_B=0$	100	-	-	V
DC Current Gain	$h_{FE} 1$ (Note)	$V_{CE}=5V, I_C=1.5A$	55	-	160	
	$h_{FE} 2$	$V_{CE}=4V, I_C=15A$	15	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat) 1}$	$I_C=15A, I_B=1.5A$	-	-	1.8	V
	$V_{CE(sat) 2}$	$I_C=25A, I_B=5.0A$	-	-	4.0	
Base-Emitter Voltage	V_{BE}	$V_{CE}=5V, I_C=5A$	-	-	1.5	V
Transition Frequency	f_T	$V_{CE}=5V, I_C=1A$	3.0	-	-	MHz

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