

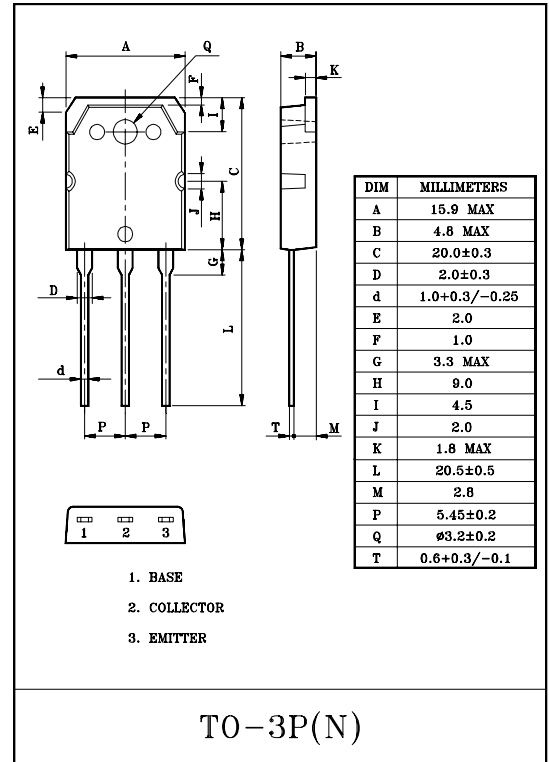
HIGH POWER AMPLIFIER APPLICATION.

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

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