

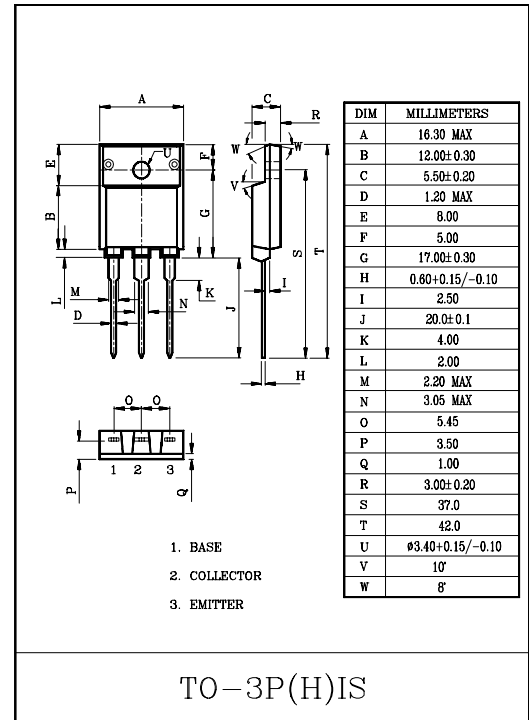
HIGH POWER AMPLIFIER APPLICATION.

FEATURES

- Recommended for 45~50W Audio Frequency Amplifier Output Stage.
- Complementary to KTB778.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	120	V
Collector-Emitter Voltage	V_{CEO}	120	V
Emitter-Base Voltage	V_{EB0}	5	V
Collector Current	I_C	10	A
Base Current	I_B	1.0	A
Collector Power Dissipation ($T_c=25^{\circ}\text{C}$)	P_C	80	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}	$V_{CB}=120\text{V}, I_E=0$	-	-	10	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5\text{V}, I_C=0$	-	-	10	μA
Collector-emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=50\text{mA}, I_B=0$	120	-	-	V
DC Current Gain	$h_{FE}(\text{Note})$	$V_{CE}=5\text{V}, I_C=1\text{A}$	55	-	160	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=5\text{A}, I_B=0.5\text{A}$	-	-	2.5	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=5\text{V}, I_C=5\text{A}$	-	-	1.5	V
Transition Frequency	f_T	$V_{CE}=5\text{V}, I_C=1\text{A}$	-	12	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$	-	170	-	pF

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

