

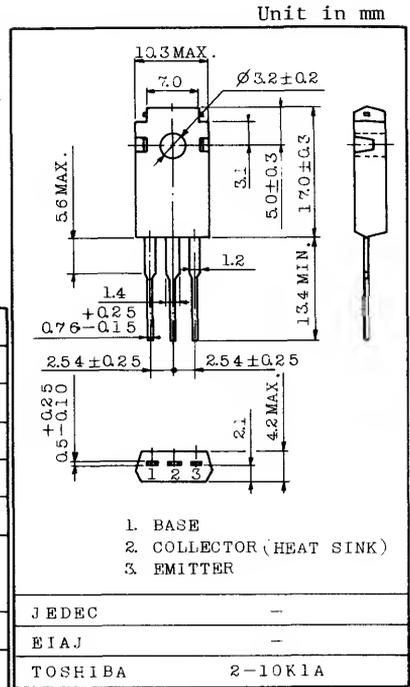
AUDIO FREQUENCY POWER AMPLIFIER APPLICATIONS.

FEATURES:

- . High DC Current Gain of 200 to 1200 at $V_{CE}=5V$, $I_C=0.5A$
- . Low $V_{CE(sat)}$ of 1.0V (Max.) at $I_C=1A$, $I_B=0.02A$
- . Collector Power Dissipation of 30W at $T_c=25^{\circ}C$

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

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	50	V
Collector-Emitter Voltage		V_{CEO}	50	V
Emitter-Base Voltage		V_{EBO}	7	V
Collector Current		I_C	3	A
Base Current		I_B	0.5	A
Collector Power Dissipation	$T_a=25^{\circ}C$	P_C	1.5	W
	$T_c=25^{\circ}C$		30	
Junction Temperature		T_j	150	$^{\circ}C$
Storage Temperature Range		T_{stg}	-55 ~ 150	$^{\circ}C$



Weight : 2.0g

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}C$)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	$V_{CB}=50V$, $I_E=0$	-	-	100	μA
Emitter Cut-off Current		I_{EBO}	$V_{EB}=7V$, $I_C=0$	-	-	100	μA
Collector-Emitter Breakdown Voltage		$V_{(BR)CEO}$	$I_C=50mA$, $I_B=0$	50	-	-	V
DC Current Gain		h_{FE} (Note)	$V_{CE}=5V$, $I_C=0.5A$	200	-	1200	
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	$I_C=1A$, $I_B=0.02A$	-	0.25	1.0	V
Base-Emitter Voltage		V_{BE}	$V_{CE}=5V$, $I_C=0.5A$	-	0.7	1.0	V
Transition Frequency		f_T	$V_{CE}=5V$, $I_C=0.5A$	-	5.0	-	MHz
Collector Output Capacitance		C_{ob}	$V_{CB}=10V$, $I_E=0$, $f=1MHz$	-	70	-	pF
Switching Time	Turn-on Time	t_{on}		-	2.0	-	μs
	Storage Time	t_{stg}		-	5.0	-	
	Fall Time	t_f		-	3.0	-	

Note : h_{FE} Classification GR : 200 ~ 400, BL : 350 ~ 700, V : 600 ~ 1200

