

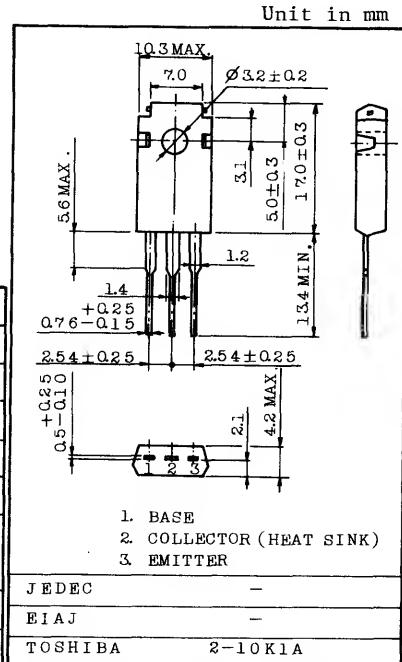
## AUDIO FREQUENCY POWER AMPLIFIER APPLICATIONS.

## FEATURES:

- . Low Collector Saturation Voltage :  $V_{CE(sat)} = -1.0V$  (Max.) at  $I_C = -3A$ ,  $I_B = -0.3A$
- . Collector Power Dissipation :  $P_C = 30W$  ( $T_c = 25^\circ C$ )
- . Complementary to 2SD1354

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	-60	V
Collector-Emitter Voltage	$V_{CEO}$	-60	V
Emitter-Base Voltage	$V_{EBO}$	-7	V
Collector Current	$I_C$	-3	A
Base Current	$I_B$	-0.5	A
Collector Power Dissipation	$P_C$	1.5	W
		30	
Junction Temperature	$T_j$	150	$^\circ C$
Storage Temperature Range	$T_{stg}$	-55 ~ 150	$^\circ C$

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

Weight : 2.0g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = -60V$ , $I_E = 0$	-	-	-100	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB} = -7V$ , $I_C = 0$	-	-	-100	$\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -50mA$ , $I_B = 0$	-60	-	-	V
DC Current Gain (Note)	$hFE(1)$	$V_{CE} = -5V$ , $I_C = -0.5A$	60	-	200	-
	$hFE(2)$	$V_{CE} = -5V$ , $I_C = -3A$	20	-	-	-
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -3A$ , $I_B = -0.3A$	-	-0.5	-1.0	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE} = -5V$ , $I_C = -0.5A$	-	-0.7	-1.0	V
Transition Frequency	$f_T$	$V_{CE} = -5V$ , $I_C = -0.5A$	-	9	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB} = -10V$ , $I_E = 0$ , $f = 1MHz$	-	150	-	pF
Switching Time	Turn-on Time	$t_{on}$	$I_{B1}$ 0 20 $\mu$ sec $-I_{B1} = I_{B2} = 0.2A$ DUTY CYCLE $\leq 1\%$	-	0.4	-
	Storage Time	$t_{stg}$		-	1.7	-
	Fall Time	$t_f$		-	0.5	-

Note :  $hFE(1)$  Classification O : 60 ~ 120, Y : 100 ~ 200

