

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07586 D T-33-07

SILICON NPN EPITAXIAL TYPE (PCT PROCESS)

**2SC2704**

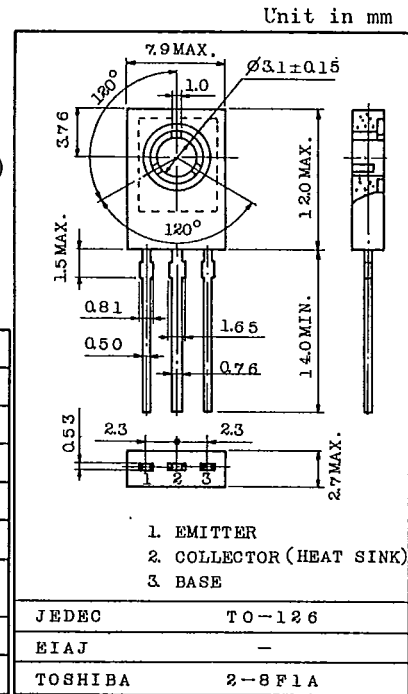
## AUDIO FREQUENCY AMPLIFIER APPLICATIONS.

## FEATURES:

- . Complementary to 2SA1144.
- . Small Collector Output Capacitance :  $C_{ob}=1.8pF$ (Typ.)
- . High Transition Frequency :  $f_T=200MHz$ (Typ.)

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CB0}$	150	V
Collector-Emitter Voltage	$V_{CE0}$	150	V
Emitter-Base Voltage	$V_{EB0}$	5	V
Collector Current	$I_C$	50	mA
Base Current	$I_B$	5	mA
Collector Power Dissipation ( $T_c=25^{\circ}C$ )	$P_C$	10	W
Junction Temperature	$T_j$	150	$^{\circ}C$
Storage Temperature Range	$T_{stg}$	-55~150	$^{\circ}C$



Mounting Kit No. AC46C

Weight : 0.72g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=150V, I_E=0$	-	-	0.1	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$	-	-	0.1	$\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	150	-	-	V
DC Current Gain	$h_{FE}$ (Note)	$V_{CE}=5V, I_C=10mA$	80	-	240	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=1mA$	-	-	1.0	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=5V, I_C=10mA$	-	-	0.8	V
Transition Frequency	$f_T$	$V_{CE}=10V, I_C=10mA$	-	200	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	1.8	-	pF

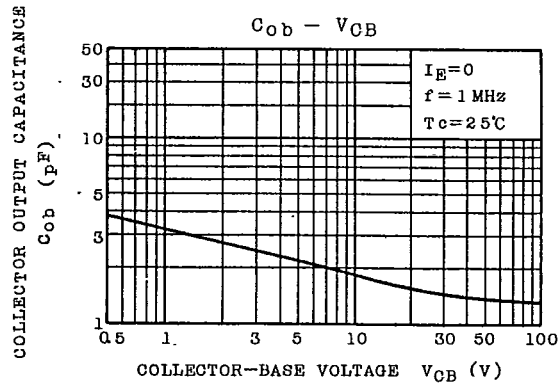
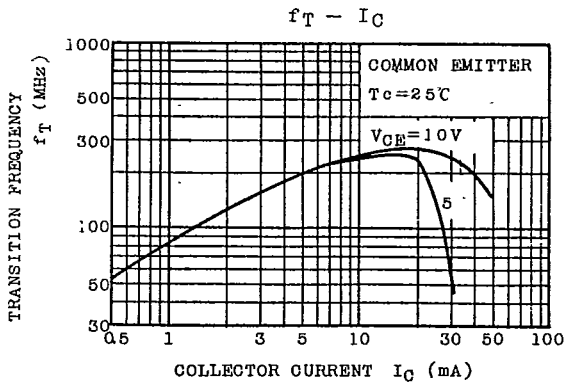
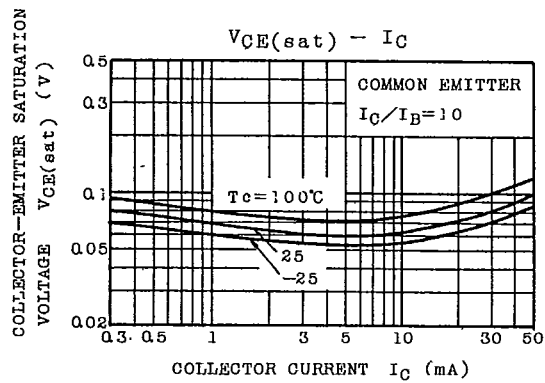
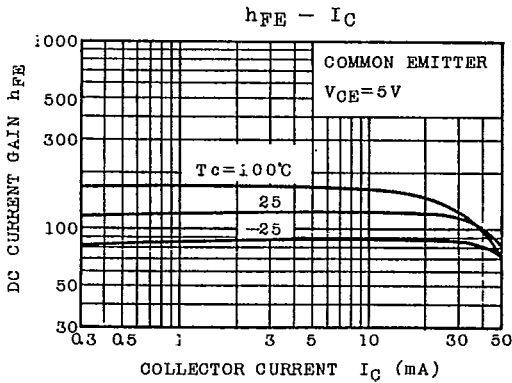
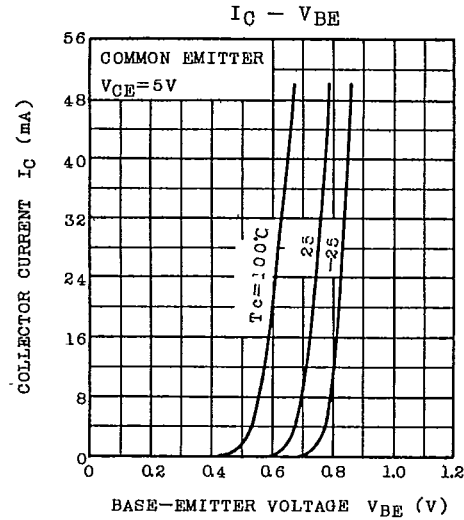
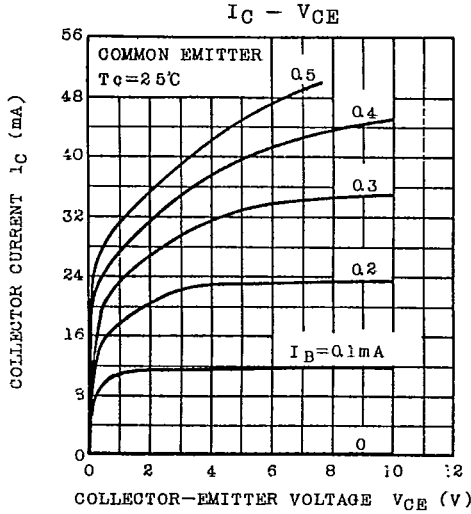
Note:  $h_{FE}$  Classification. O:80~160, Y:120~240

TOSHIBA CORPORATION

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07587 0T-33-07

**2SC2704**



TOSHIBA CORPORATION

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07588

DT-33-07

2SC2704

