

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07301 0Y-33-17

SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

2SA1305

POWER AMPLIFIER APPLICATIONS.

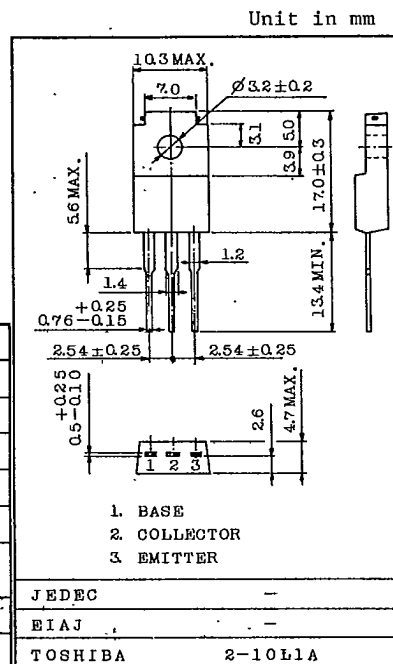
CAR RADIO AND CAR STEREO OUTPUT STAGE APPLICATIONS.

FEATURES:

- Good Linearity of h_{FE}
- Complementary to 2SC3297

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	-30	V
Collector-Emitter Voltage	V_{CE0}	-30	V
Emitter-Base Voltage	V_{EB0}	-5	V
Collector Current	I_C	-3	A
Base Current	I_B	-0.3	A
Collector Power Dissipation ($T_c=25^\circ\text{C}$)	P_C	15	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ\text{C}$



Weight : 2.1g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=-20\text{V}, I_E=0$	-	-	-1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5\text{V}, I_C=0$	-	-	-1.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C=-10\text{mA}, I_B=0$	-30	-	-	V
DC Current Gain	h_{FE} (Note)	$V_{CE}=-2\text{V}, I_C=-0.5\text{A}$	70	-	240	
	$h_{FE}(2)$	$V_{CE}=-2\text{V}, I_C=-2.5\text{A}$	25	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-2\text{A}, I_B=-0.2\text{A}$	-	-0.3	-0.8	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=-2\text{V}, I_C=-0.5\text{A}$	-	-0.75	-1.0	V
Transition Frequency	f_T	$V_{CE}=-2\text{V}, I_C=-0.5\text{A}$	-	100	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$	-	40	-	pF

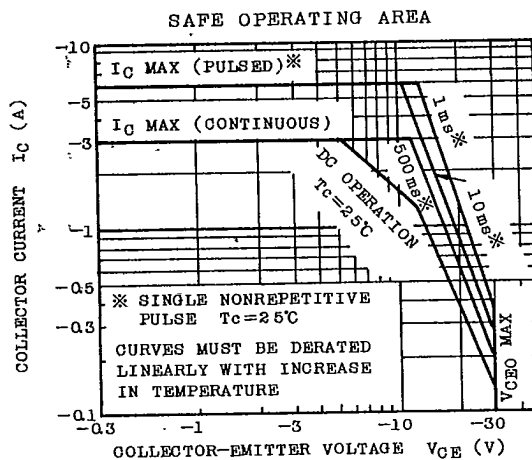
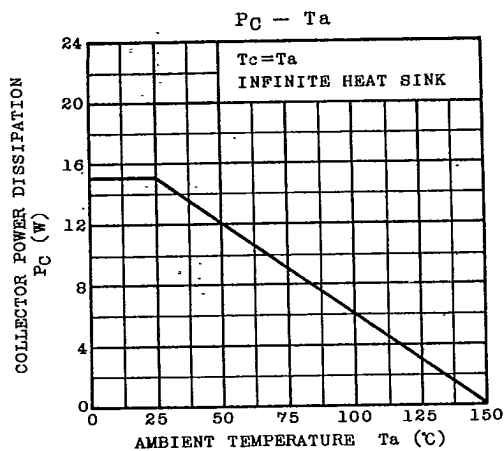
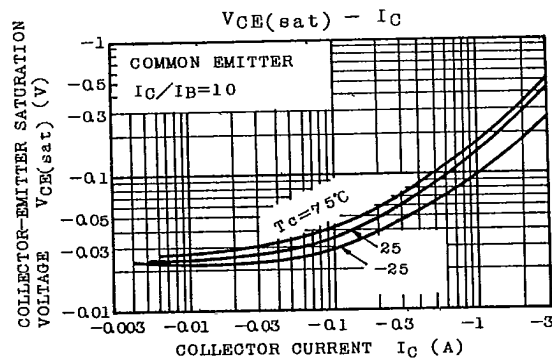
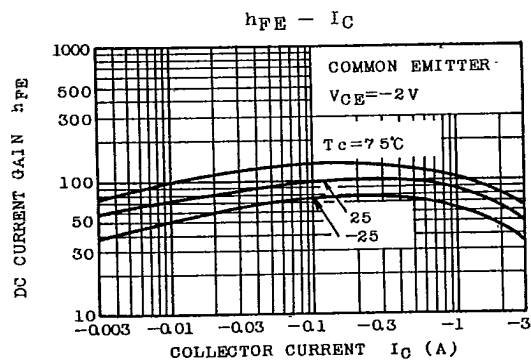
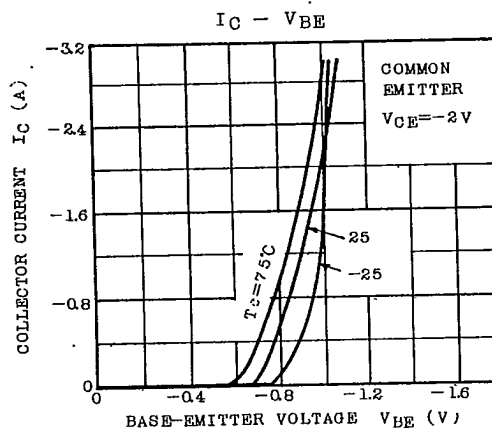
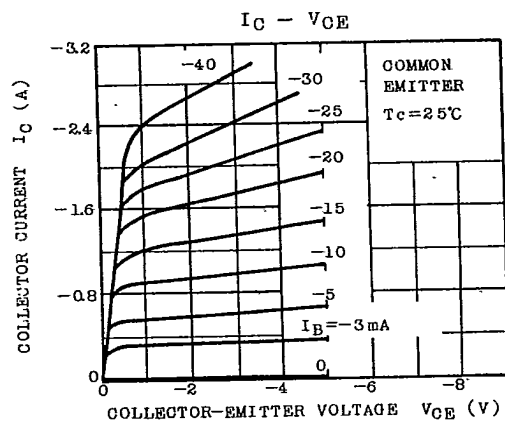
Note : $h_{FE}(1)$ Classification O : 70 ~ 140, Y : 120 ~ 240

TOSHIBA CORPORATION

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07302

D T-33-17

2SA1305

TOSHIBA CORPORATION