

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07631

DT-33-07

**2SC3073**

SILICON NPN EPITAXIAL TYPE (PCT PROCESS)

POWER AMPLIFIER APPLICATIONS.

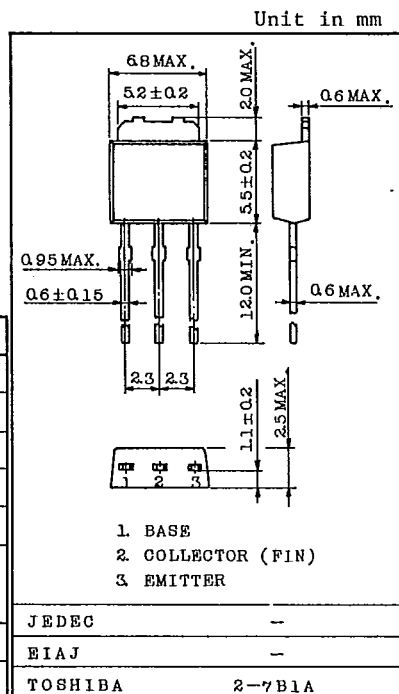
CAR RADIO, CAR STEREO OUTPUT STAGE AMPLIFIER  
APPLICATIONS.

FEATURES:

- . Good Linearity of  $h_{FE}$
- . Complementary to 2SA1243

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	$I_B$	0.6	A
Collector Power Dissipation	$P_C$	$T_a=25^\circ\text{C}$	1.0
		$T_c=25^\circ\text{C}$	10
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 ~ 150	$^\circ\text{C}$



Weight : 0.36g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CB0}$	$V_{CB}=20\text{V}, I_E=0$	-	-	1.0	$\mu\text{A}$
Emitter Cut-off Current	$I_{EB0}$	$V_{EB}=5\text{V}, I_C=0$	-	-	1.0	$\mu\text{A}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C=10\text{mA}, I_B=0$	30	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EB0}$	$I_E=1\text{mA}, I_C=0$	5	-	-	V
DC Current Gain	$h_{FE(1)}$ (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	$C_{ob}$	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$	-	35	-	pF

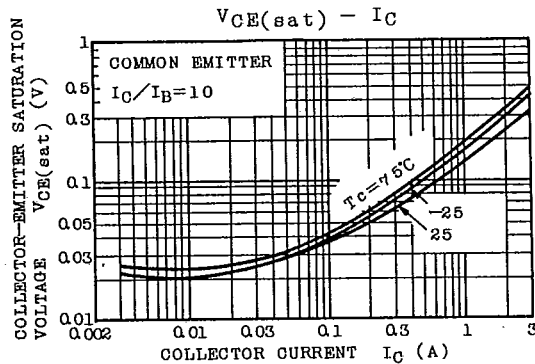
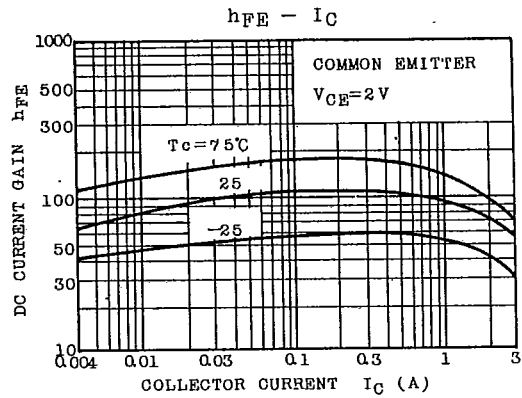
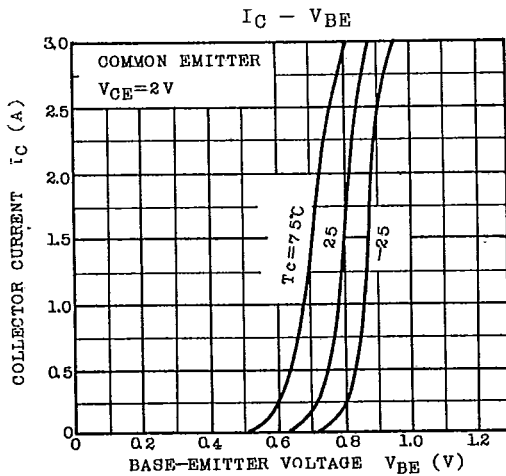
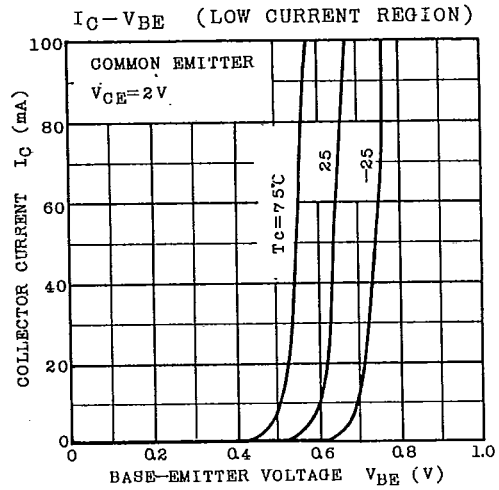
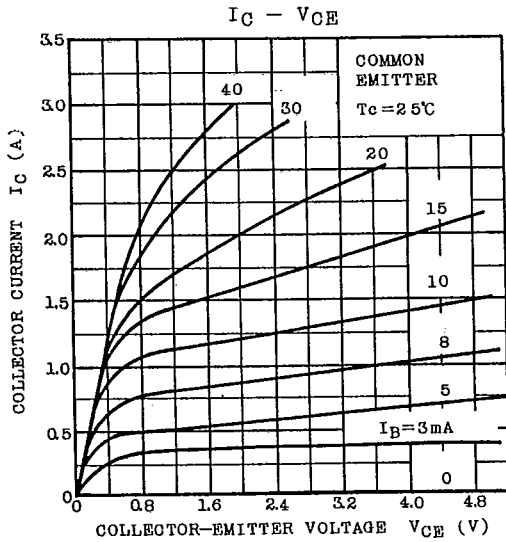
Note:  $h_{FE(1)}$  Classification O : 70 ~ 140, Y : 120 ~ 240

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