

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07354 DT-33-21

**2SB754**

SILICON PNP TRIPLE DIFFUSED TYPE (PCT PROCESS)

Unit in mm

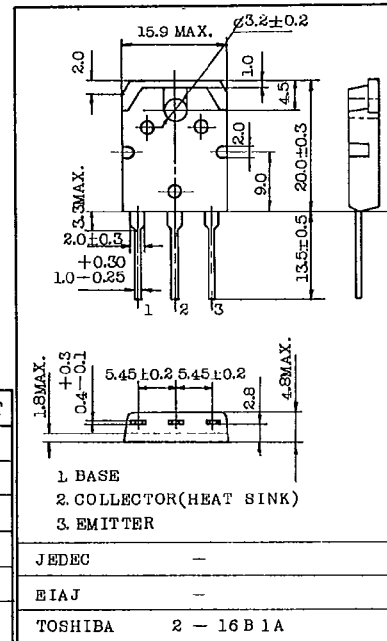
HIGH CURRENT SWITCHING APPLICATIONS.  
POWER AMPLIFIER APPLICATIONS.

## FEATURES:

- High Collector Current :  $I_C = -7A$
- Low Collector Saturation Voltage  
:  $V_{CE(sat)} = -0.4V$  (Max.) at  $I_C = -4A$
- High Power Dissipation :  $P_C = 60W$  at  $T_c = 25^\circ C$
- Complementary to 2SD844.

## MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V <sub>CB0</sub>	-50	V
Collector-Emitter Voltage	V <sub>CE0</sub>	-50	V
Emitter-Base Voltage	V <sub>EB0</sub>	-5	V
Collector Current	I <sub>C</sub>	-7	A
Emitter Current	I <sub>E</sub>	7	A
Collector Power Dissipation	P <sub>C</sub>	T <sub>a</sub> =25°C	2.5
		T <sub>c</sub> =25°C	60
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	-55~150	°C



Weight : 4.6g

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I <sub>CB0</sub>	V <sub>CB</sub> = -50V, I <sub>E</sub> = 0	-	-	-10	μA
Emitter Cut-off Current	I <sub>EB0</sub>	V <sub>EB</sub> = -5V, I <sub>C</sub> = 0	-	-	-10	μA
Collector-Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> = -50mA, I <sub>B</sub> = 0	-50	-	-	V
Emitter-Base Breakdown Voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> = -10mA, I <sub>C</sub> = 0	-5	-	-	V
DC Current Gain	h <sub>FE</sub> (1) (Note)	V <sub>CE</sub> = -1V, I <sub>C</sub> = -1A	70	-	240	
	h <sub>FE</sub> (2)	V <sub>CE</sub> = -1V, I <sub>C</sub> = -4A	30	-	-	
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> = -4A, I <sub>B</sub> = -0.4A	-	-0.2	-0.4	V
Base-Emitter Voltage	V <sub>BE</sub>	V <sub>CE</sub> = -1V, I <sub>C</sub> = -4A	-	-0.9	-1.2	V
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> = -5V, I <sub>C</sub> = -1A	-	10	-	MHz
Collector Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> = -10V, I <sub>E</sub> = 0, f = 1MHz	-	300	-	pF

Note : h<sub>FE</sub>(1) Classification O : 70~140 Y : 120~240

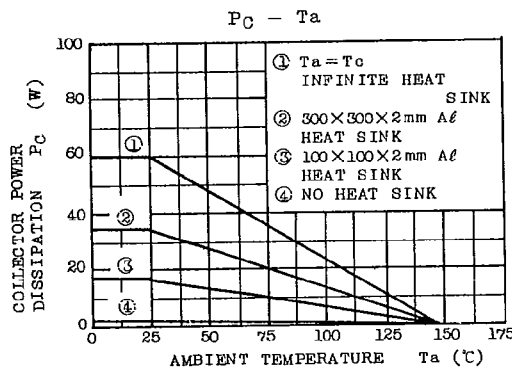
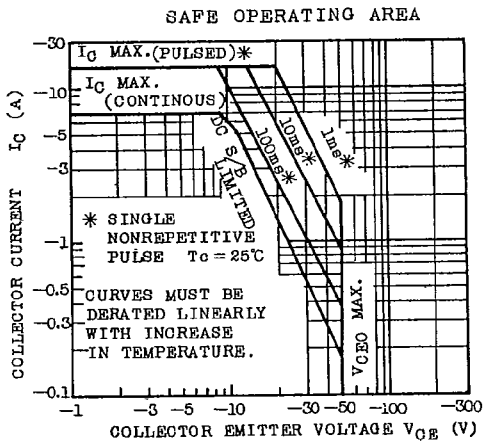
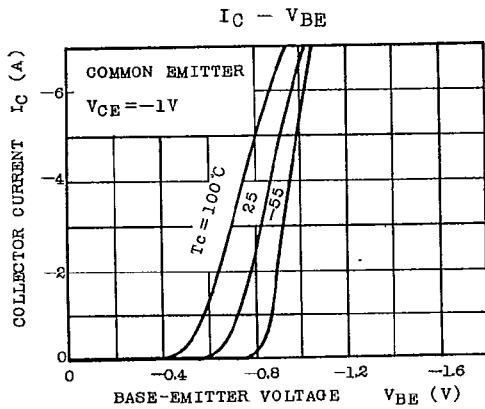
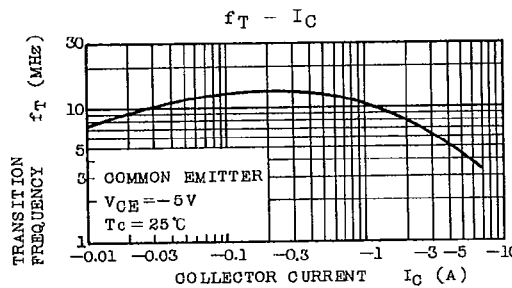
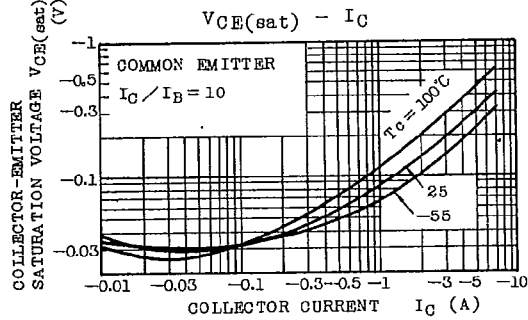
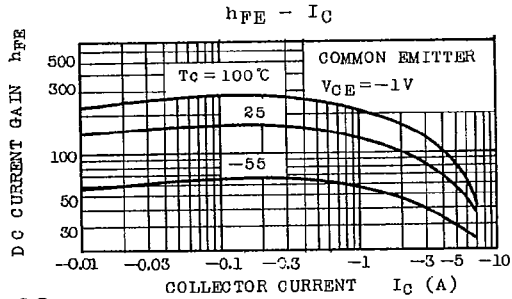
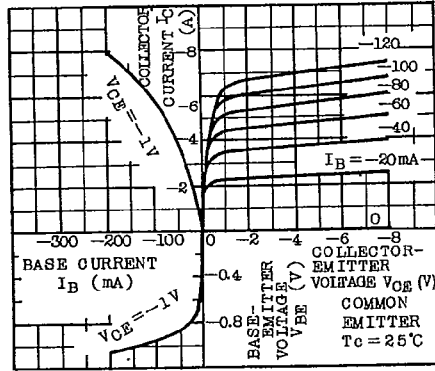
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STATIC CHARACTERISTICS



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