

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07217 DT-33-19

SILICON PNP TRIPLE DIFFUSED TYPE

**2SA490**

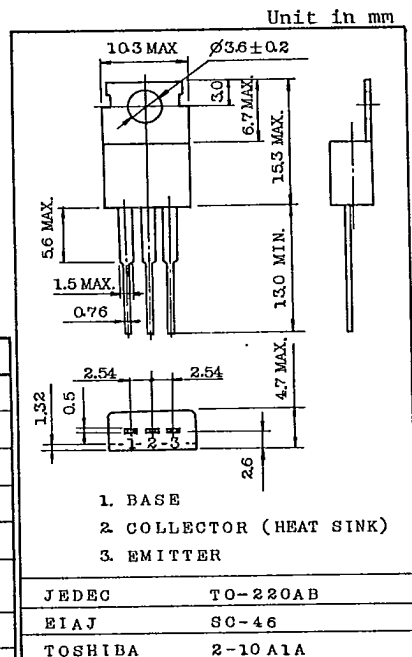
POWER AMPLIFIER APPLICATIONS.

## FEATURES:

- Complementary to 2SC790.
- 10 Watts Output Applications.

## 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>	-40	V
Emitter-Base Voltage	V <sub>EBO</sub>	-5	V
Collector Current	I <sub>C</sub>	-3	A
Emitter Current	I <sub>E</sub>	3	A
Collector Power Dissipation (Tc=25°C)	P <sub>C</sub>	25	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	-55~150	°C



Mounting Kit No. AC75  
Weight : 1.9g

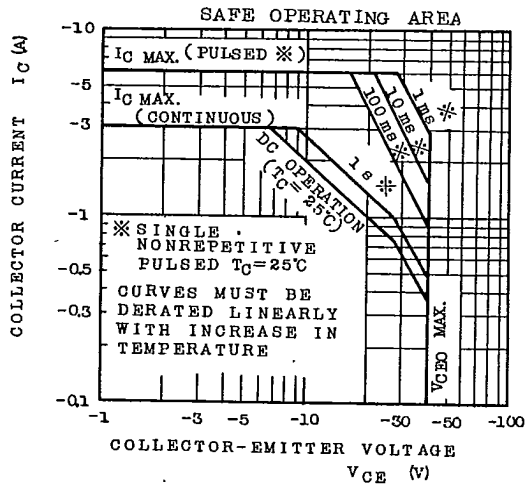
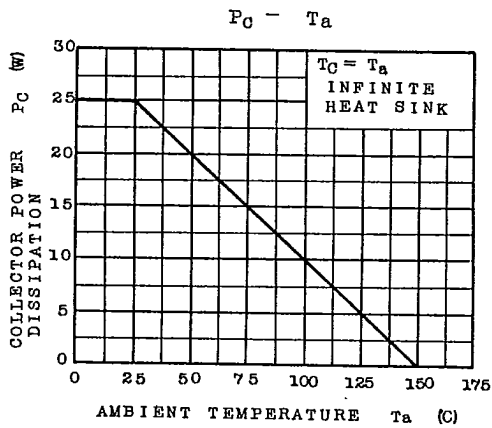
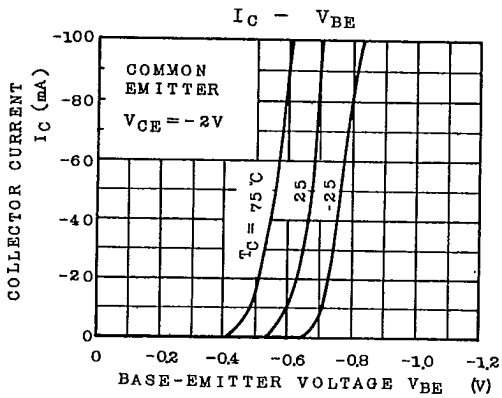
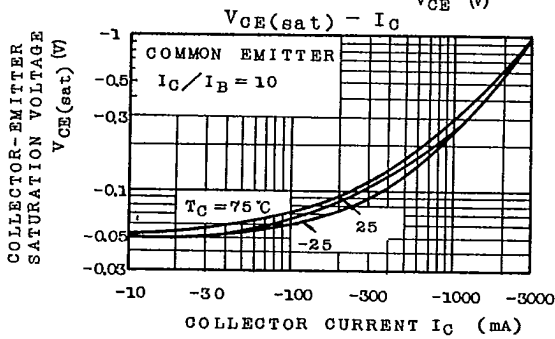
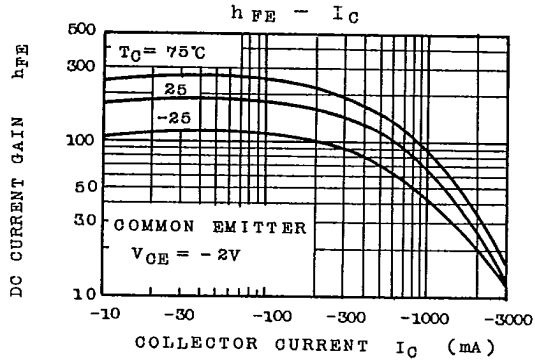
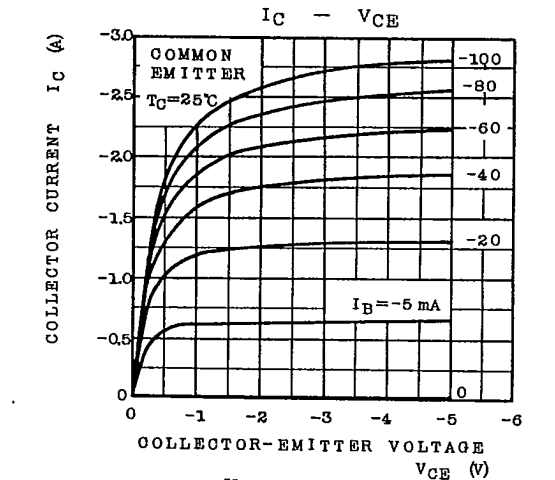
## ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I <sub>CB0</sub>	V <sub>CB</sub> =-30V, I <sub>E</sub> =0	-	-	-10	μA
Emitter Cut-off Current	I <sub>EBO</sub>	V <sub>EB</sub> =-5V, I <sub>C</sub> =0	-	-	-100	μA
Collector-Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =-50mA, I <sub>B</sub> =0	-40	-	-	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> =-2V, I <sub>C</sub> =-0.5A	40	-	240	
	h <sub>FE</sub> (2)	V <sub>CE</sub> =-2V, I <sub>C</sub> =-2A	13	50	-	
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =-2A, I <sub>B</sub> =-0.2A	-	-0.45	-1.2	V
Base-Emitter Voltage	V <sub>BE</sub>	V <sub>CE</sub> =-2V, I <sub>C</sub> =-2A	-	-0.85	-1.8	V
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> =-2V, I <sub>C</sub> =-0.5A	3	10	-	MHz
Collector Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1MHz	-	150	-	pF

Note : h<sub>FE</sub>(1) Classification R : 40~80 O : 70~140 Y : 120~240

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