## 9097250 TOSHIBA (DISCRETE/OPTO)

### SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

560 07263 2SA1146

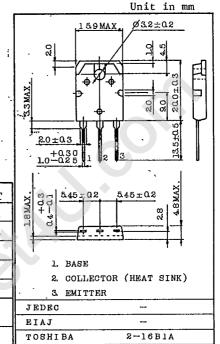
# AUDIO FREQUENCY LOW POWER AMPLIFIER APPLICATIONS.

## FEATURES:

- . Complementary to 2SC2706.
- . Recommended for 70W audio frequency amplifier output stage.
- . High transition frequency:  $f_T=70 \text{MHz} \text{(Typ.)}$

#### MAXIMUM RATINGS (Ta=25°C)

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CHARACTERISTIC -	SYMBOL	RATING	UNIT	
Collector-Base Voltage	V <sub>СВО</sub>	-140	V.	
Collector-Emitter Voltage	VCEO	-140	V.	
Emitter-Base Voltage	VEBO	<b>-</b> 5	· v	
Collector Current	IC	-10	A	
Base Current	IB	'-1·	A	
Collector Power Dissipation (Tc=25°C)	PC	100	W	
Junction Temperature	Tj	150 ·	°c	
Storage Temperature Range	Tstg	-55~150	°c	
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Weight: 4.6g

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

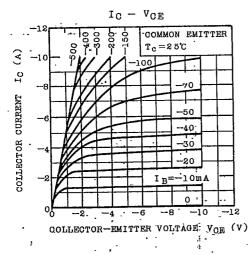
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	ICBO	V <sub>CB</sub> =-140V, I <sub>E</sub> =0	-	-	<del>-</del> 50	μA
Emitter Cut-off Current	IEBO	V <sub>EB</sub> =-5V, I <sub>C</sub> =0	_	-	-50	μA
Collector-Emitter Breakdown Voltage	V(BR)CEO	I <sub>C</sub> =-50mA, I <sub>B</sub> =0	-140	-	_	V
DC Current Gain	hFE(1) (Note)	V <sub>CE</sub> =-5V, I <sub>C</sub> =-1A	55	_	240	
	h <sub>FE</sub> (2)	V <sub>CE</sub> =-5V, I <sub>C</sub> =-5A	30	-	-	
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =-5A, I <sub>B</sub> =-0.5A	-	-	-2.0	V
Base-Emitter Voltage	v <sub>BE</sub>	V <sub>CE</sub> =-5V, I <sub>C</sub> =-5A	_	-	-2.5	v
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> =-10V, I <sub>C</sub> =-1A	-	70	_	MHz
Collector Output Capacitance	Cob	V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1MHz	-	220		рF

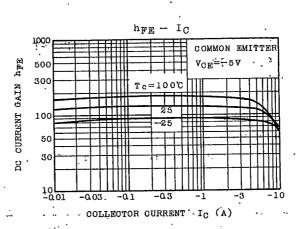
Note:  $h_{\mbox{\scriptsize FE}}$  Classification R:55~110, 0:80~160, Y:120~240

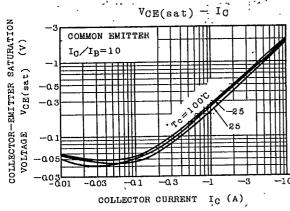
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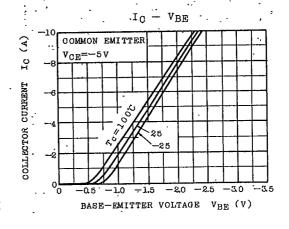
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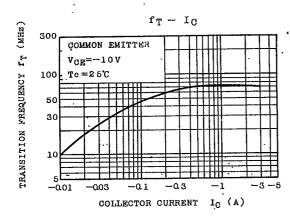
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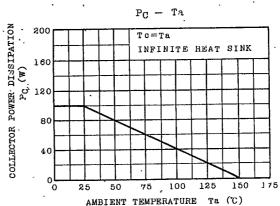












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9097250 TOSHIBA (DISCRETE/OPTO)

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