

TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

2SA966

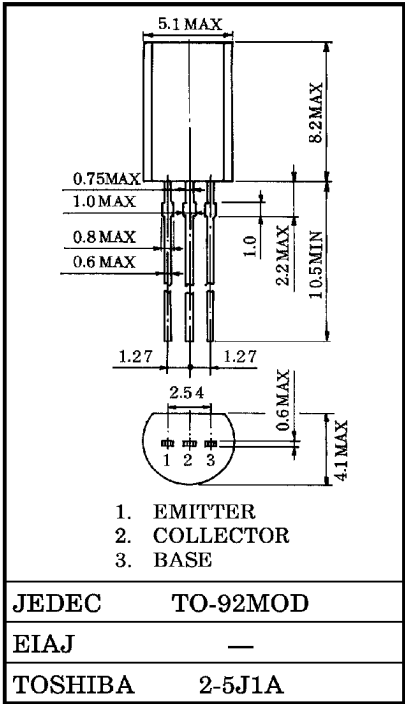
AUDIO POWER AMPLIFIER APPLICATIONS.

Unit in mm

- Complementary to 2SC2236 and 3Watts Output Applications.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	VCBO	−30	V
Collector-Emitter Voltage	VCEO	−30	V
Emitter-Base Voltage	VEBO	−5	V
Collector Current	IC	−1.5	A
Emitter Current	IE	1.5	A
Collector Power Dissipation	PC	900	mW
Junction Temperature	Tj	150	°C
Storage Temperature Range	Tstg	−55~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

Weight : 0.36g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	ICBO	V _{CB} = −30V, I _E = 0	—	—	−100	nA
Emitter Cut-off Current	IEBO	V _{EB} = −5V, I _C = 0	—	—	−100	nA
Collector-Emitter Breakdown Voltage	V _(BR) CEO	I _C = −10mA, I _B = 0	−30	—	—	V
Emitter-Base Breakdown Voltage	V _(BR) EBO	I _E = −1mA, I _C = 0	−5	—	—	V
DC Current Gain	h _{FE} (Note)	V _{CE} = −2V, I _C = −500mA	100	—	320	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = −1.5A, I _B = −0.03A	—	—	−2.0	V
Base-Emitter Voltage	V _{BE}	V _{CE} = −2V, I _C = −500mA	—	—	−1.0	V
Transition Frequency	f _T	V _{CE} = −2V, I _C = −500mA	—	120	—	MHz
Collector Output Capacitance	C _{ob}	V _{CB} = −10V, I _E = 0, f = 1MHz	—	—	30	pF

Note : h_{FE} Classification O : 100~200, Y : 160~320

961001EAA2

- TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product could cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.
- The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA CORPORATION for any infringements of intellectual property or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any intellectual property or other rights of TOSHIBA CORPORATION or others.
- The information contained herein is subject to change without notice.

