

TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL TYPE (PCT PROCESS)

2SC2235

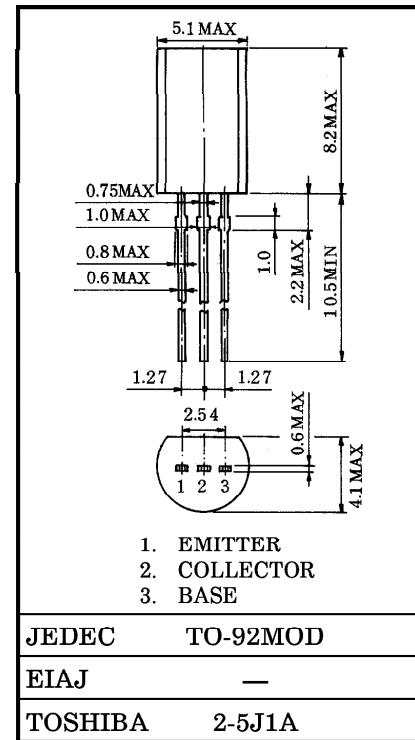
AUDIO POWER AMPLIFIER APPLICATIONS.
DRIVER STAGE AMPLIFIER APPLICATIONS.

Unit in mm

- Complementary to 2SA965.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CB0}	120	V
Collector-Emitter Voltage	V _{CEO}	120	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _C	800	mA
Emitter Current	I _E	-800	mA
Collector Power Dissipation	P _C	900	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-55~150	°C



Weight : 0.36g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CB0}	V _{CB} = 120V, I _E = 0	—	—	100	nA
Emitter Cut-off Current	I _{EBO}	V _{EB} = 5V, I _C = 0	—	—	100	nA
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C = 10mA, I _B = 0	120	—	—	V
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	I _E = 1mA, I _C = 0	5	—	—	V
DC Current Gain	h _{FE} (Note)	V _{CE} = 5V, I _C = 100mA	80	—	240	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = 500mA, I _B = 50mA	—	—	1.0	V
Base-Emitter Voltage	V _{BE}	V _{CE} = 5V, I _C = 500mA	—	—	1.0	V
Transition Frequency	f _T	V _{CE} = 5V, I _C = 100mA	—	120	—	MHz
Collector Output Capacitance	C _{ob}	V _{CB} = 10V, I _E = 0, f = 1MHz	—	—	30	pF

Note : h_{FE} Classification O : 80~160, Y : 120~240

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