

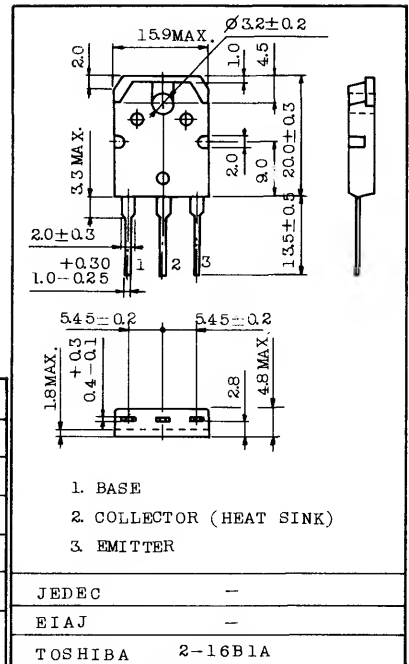
Unit in mm

AUDIO FREQUENCY POWER AMPLIFIER APPLICATIONS.**FEATURES:**

- . Complementary to 2SA1093.
- . Recommended for 50W audio amplifier output stage.
- . High transition frequency : $f_T=90\text{MHz}$ (Typ.)

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	120	V
Collector-Emitter Voltage	V_{CE0}	120	V
Emitter-Base Voltage	V_{EB0}	5	V
Collector Current	I_C	8	A
Base Current	I_B	0.8	A
Collector Power Dissipation ($T_c=25^\circ\text{C}$)	P_C	80	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^\circ\text{C}$



Weight : 4.6g

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CB0}	$V_{CB}=120\text{V}, I_E=0$	—	—	50	μA
Emitter Cut-off Current	I_{EB0}	$V_{EB}=5\text{V}, I_C=0$	—	—	50	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C=0.05\text{A}, I_B=0$	120	—	—	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE}=5\text{V}, I_C=1\text{A}$	55	—	240	
	$h_{FE(2)}$	$V_{CE}=5\text{V}, I_C=4\text{A}$	30	—	—	
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=4\text{A}, I_B=0.4\text{A}$	—	1.0	2.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=5\text{V}, I_C=4\text{A}$	—	1.5	2.5	V
Transition Frequency	f_T	$V_{CE}=10\text{V}, I_C=1\text{A}$	—	90	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$	—	90	—	pF

Note: h_{FE} Classification. R:55~110, O:80~160, Y:120~240

