

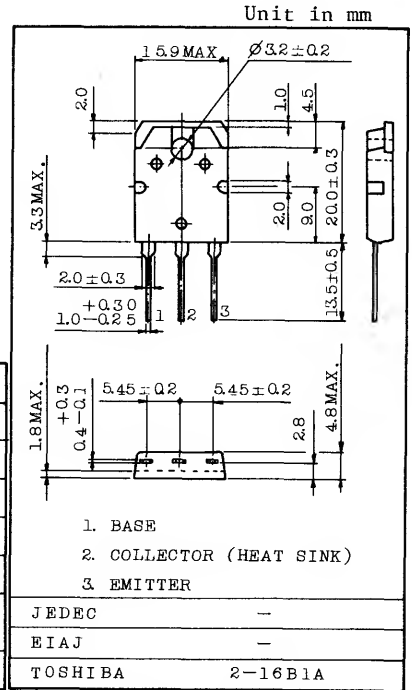
AUDIO FREQUENCY LOW POWER AMPLIFIER APPLICATIONS.

FEATURES:

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

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	-140	V
Collector-Emitter Voltage	V_{CE0}	-140	V
Emitter-Base Voltage	V_{EB0}	-5	V
Collector Current	I_C	-10	A
Base Current	I_B	-1	A
Collector Power Dissipation ($T_c=25^\circ\text{C}$)	P_C	100	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}	$V_{CB}=-140\text{V}, I_E=0$	-	-	-50	μA
Emitter Cut-off Current	I_{EB0}	$V_{EB}=-5\text{V}, I_C=0$	-	-	-50	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C=-50\text{mA}, I_B=0$	-140	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE}=-5\text{V}, I_C=-1\text{A}$	55	-	240	
	$h_{FE(2)}$	$V_{CE}=-5\text{V}, I_C=-5\text{A}$	30	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-5\text{A}, I_B=-0.5\text{A}$	-	-	-2.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=-5\text{V}, I_C=-5\text{A}$	-	-	-2.5	V
Transition Frequency	f_T	$V_{CE}=-10\text{V}, I_C=-1\text{A}$	-	70	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$	-	220	-	pF

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

