

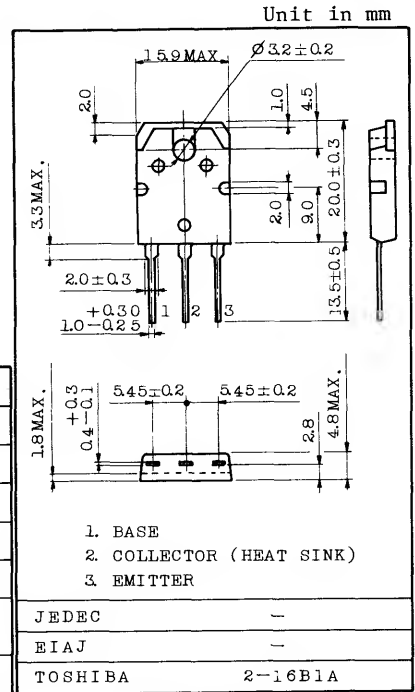
AUDIO FREQUENCY POWER AMPLIFIER APPLICATIONS.

FEATURES:

- . Complementary to 2SD718.
- . Recommended for 45 ~ 50W audio frequency amplifier output stage.

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CB0}	-120	V
Collector-Emitter Voltage	V _{CE0}	-120	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-8	A
Base Current	I _B	-0.8	A
Collector Power Dissipation (T _c =25°C)	P _C	80	W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-55 ~ 150	°C



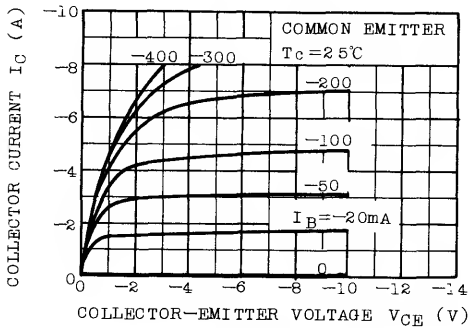
Weight : 4.6g

ELECTRICAL CHARACTERISTICS (Ta=25°C)

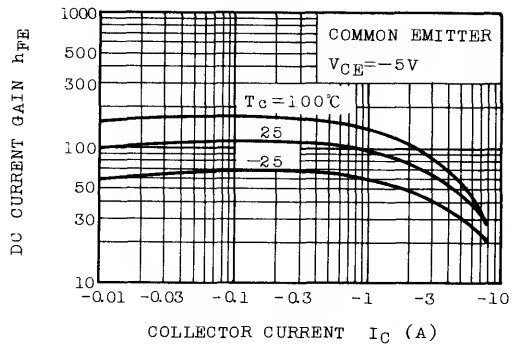
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CB0}	V _{CB} =-120V, I _E =0	-	-	-10	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} =-5V, I _C =0	-	-	-10	μA
Collector-Emitter Breakdown Voltage	V _{(BR)CE0}	I _C =-50mA, I _B =0	-120	-	-	V
DC Current Gain	h _{FE} (Note)	V _{CE} =-5V, I _C =-1A	55	-	160	
Collector Emitter Saturation Voltage	V _{CE(sat)}	I _C =-5A, I _B =-0.5A	-	-	-2.5	V
Base-Emitter Voltage	V _{BE}	V _{CE} =-5V, I _C =-5A	-	-	-1.5	V
Transition Frequency	f _T	V _{CE} =-5V, I _C =-1A	-	10	-	MHz
Collector Output Capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz	-	280	-	pF

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

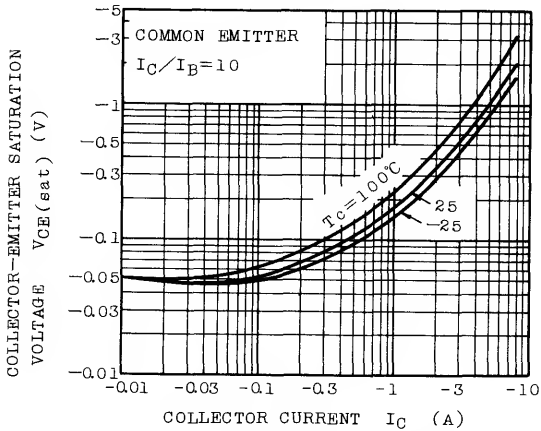
$I_C - V_{CE}$



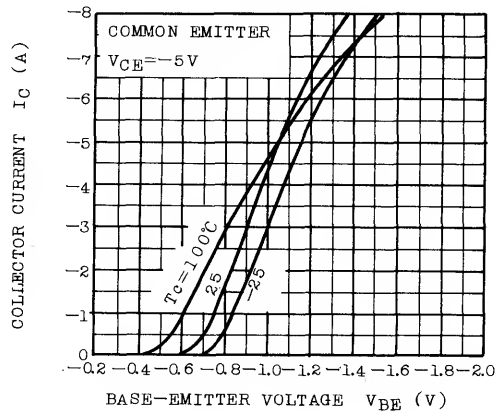
$h_{FE} - I_C$



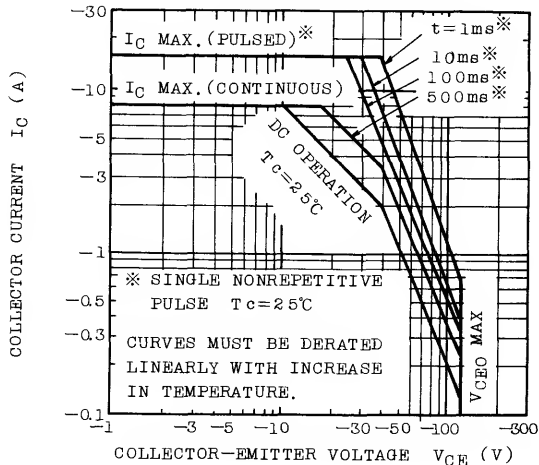
$V_{CE}(\text{sat}) - I_C$



$I_C - V_{BE}$



SAFE OPERATING AREA



$P_C - T_a$

