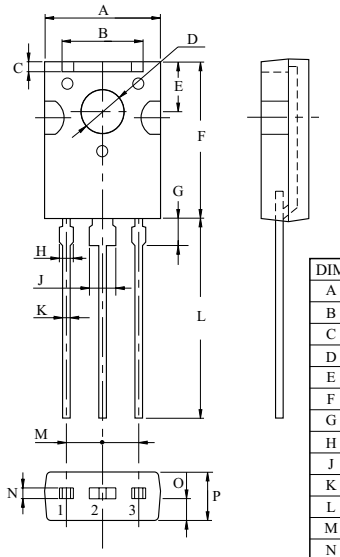
AUDIO FREQUENCY POWER AMPLIFIER
HIGH FREQUENCY POWER AMPLIFIER

FEATURES

· Complementary to KTC2803.



DIM	MILLIMETERS
A	8.3 MAX
B	5.8
C	0.7
D	Φ3.2±0.1
E	3.5
F	11.0±0.3
G	2.9 MAX
H	1.0 MAX
J	1.9 MAX
K	0.75±0.15
L	15.50±0.5
M	2.3±0.1
N	0.65±0.15
O	1.6
P	3.4 MAX

1. EMITTER
2. COLLECTOR
3. BASE

TO-126

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-120	V
Collector-Emitter Voltage		V_{CEO}	-120	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current	DC	I_C	-1.2	A
	Pulse (Note1)	I_{CP}	-2.5	
Base Current		I_B	-0.3	A
Collector Power Dissipation	Ta=25℃	P_C	1.5	W
	Tc=25℃		20	
Junction Temperature		T_j	150	℃
Storage Temperature Range		T_{stg}	-55 ~ 150	℃

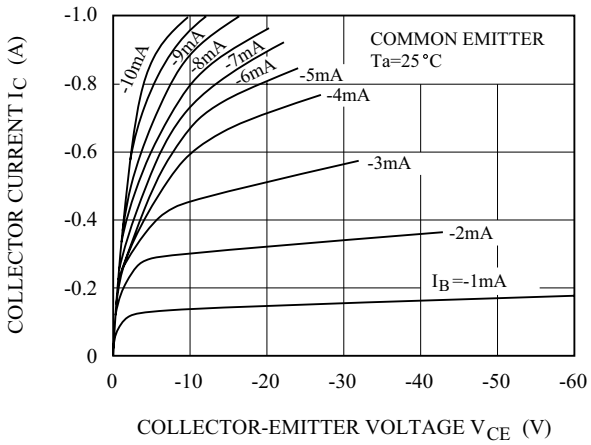
Note 1 : Pulse Width ≦10mS, Duty Cycle ≦50%

ELECTRICAL CHARACTERISTICS (Ta=25℃)

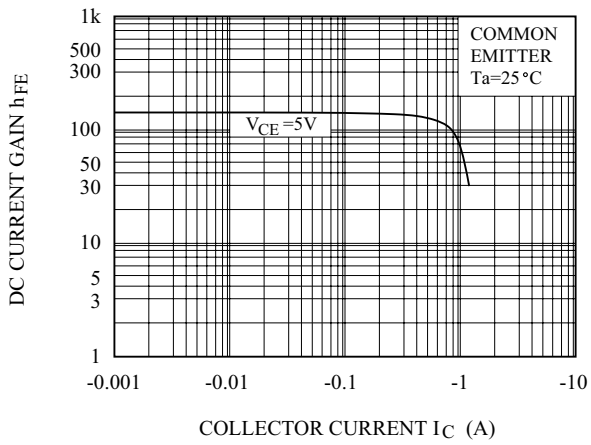
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut of Current	I_{CBO}	V_{CB}=-50V, I_E=0	-	-	-1	μA
Emitter Cut of Current	I_{EBO}	V_{EB}=-4V, I_C=0	-	-	-1	μA
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	I_C=-10μA, I_E=0	-120	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C=-1mA, I_B=0	-120	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	I_E=-10μA, I_C=0	-5	-	-	V
DC Current Gain	h_{FE}(1) Note	V_{CE}=-5V, I_C=-50mA	100	-	320	
	h_{FE}(2)	V_{CE}=-5V, I_C=-500mA	20	-	-	
Gain Bandwidth Product	f_T	V_{CE}=-10V, I_C=-50mA	-	110	-	MHz
Output Capacitance	C_{ob}	V_{CB}=-10V, I_E=0, f=1MHz	-	30	-	pF
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-500mA, I_B=-50mA	-	-0.15	-0.4	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=-500mA, I_B=-50mA	-	-0.85	-1.2	V

(Note) : h_{FE}(1) Classification Y:100 ~200, GR:160 ~320

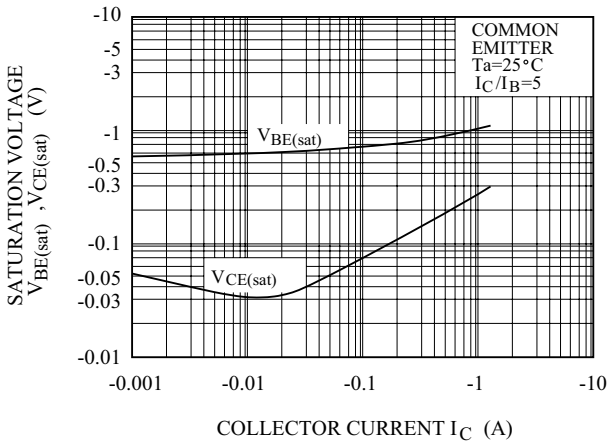
I_C - V_{CE}



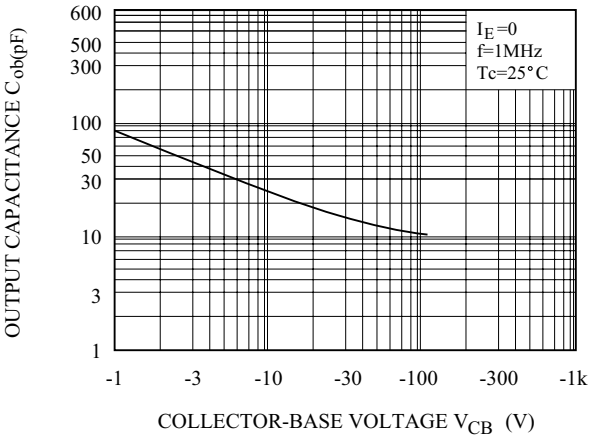
h_{FE} - I_C



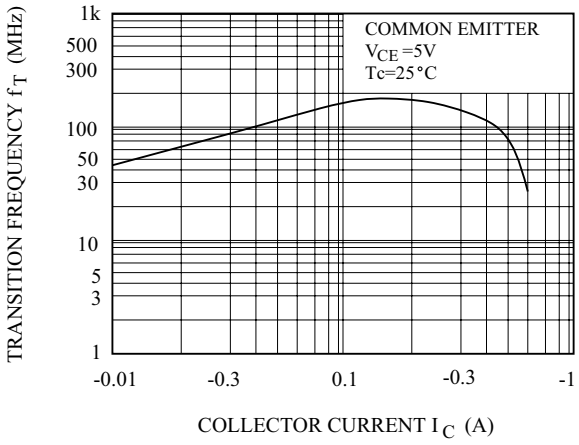
$V_{CE(sat)}$ - I_C , $V_{BE(sat)}$ - I_C



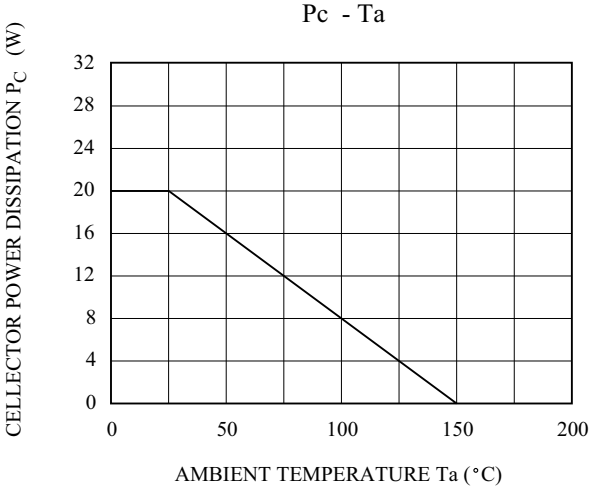
C_{ob} - V_{CB}



f_T - I_C



Pc - Ta



SAFE OPERATING AREA