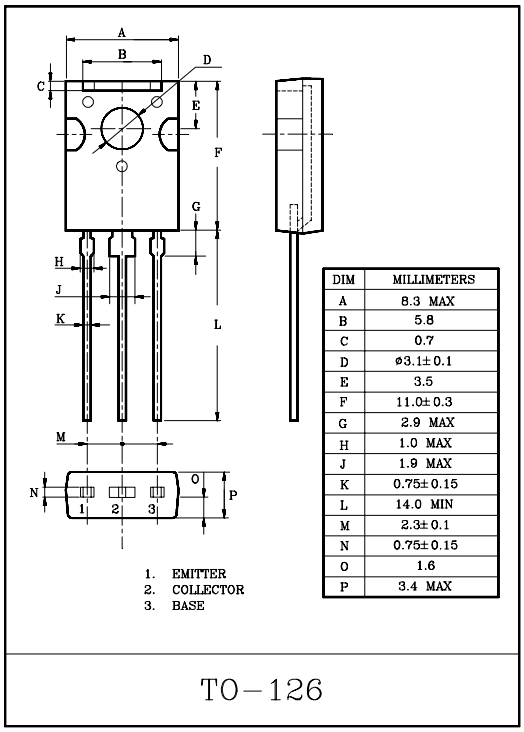
AUDIO FREQUENCY POWER AMPLIFIER
LOW SPEED SWITCHING

FEATURES
• Complementary to KTB772.



DIM	MILLIMETERS
A	8.3 MAX
B	5.8
C	0.7
D	ø3.1±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	14.0 MIN
M	2.3±0.1
N	0.75±0.15
O	1.6
P	3.4 MAX

TO-126

MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	40	V
Collector-Emitter Voltage		V_{CEO}	30	V
Emitter-Base Voltage		V_{EBO}	5	V
Collector Current	DC	I_C	3	A
	Pulse (Note)		7	
Base Current (DC)		I_B	0.6	A
Collector Power Dissipation	Ta=25℃	P_C	1.5	W
	Tc=25℃		10	
Junction Temperature		T_j	150	℃
Storage Temperature Range		T_{stg}	-55~150	℃

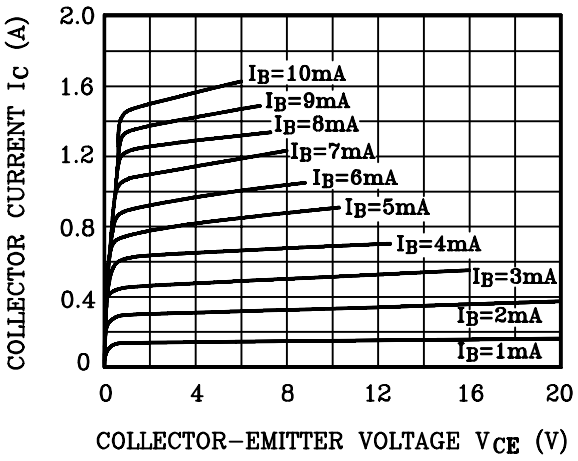
Note : Pulse Width ≤10mS, Duty Cycle≤50%.

ELECTRICAL CHARACTERISTICS (Ta=25℃)

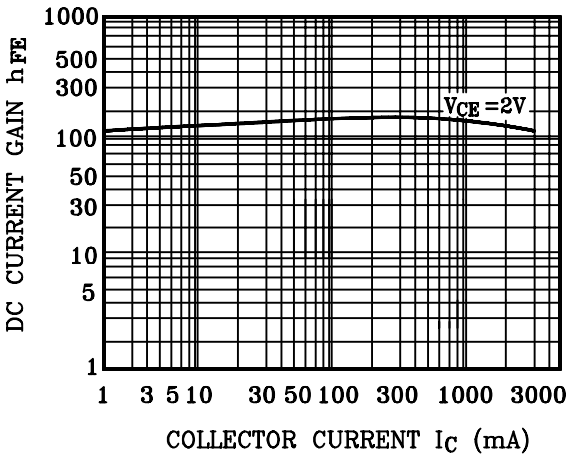
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB}=30V, I_E=0	-	-	1	μA
Emitter-Cut-off Current	I_{EBO}	V_{EB}=3V, I_C=0	-	-	1	μA
DC Current Gain *	h_{FE}(1)	V_{CE}=2V, I_C=20mA	30	150	-	
	h_{FE}(2) (Note)	V_{CE}=2V, I_C=1A	100	160	400	
Collector-Emitter Saturation Voltage *	$V_{CE(sat)}$	I_C=2A, I_B=0.2A	-	0.3	0.5	V
Base-Emitter Saturation Voltage *	$V_{BE(sat)}$	I_C=2V, I_B=0.2A	-	1.0	2.0	V
Current Gain Bandwidth Product	f_T	V_{CE}=5V, I_C=0.1A	-	90	-	MHz
Collector Output Capacitance	C_{ob}	V_{CB}=10V, I_E=0, f=1MHz	-	45	-	pF

* Pulse Test : Pulse Width≤350μS, Duty Cycle≤2% Pulsed
Note: h_{FE}(2) Classification O:100~200 , Y:160~320 , GR:200~400

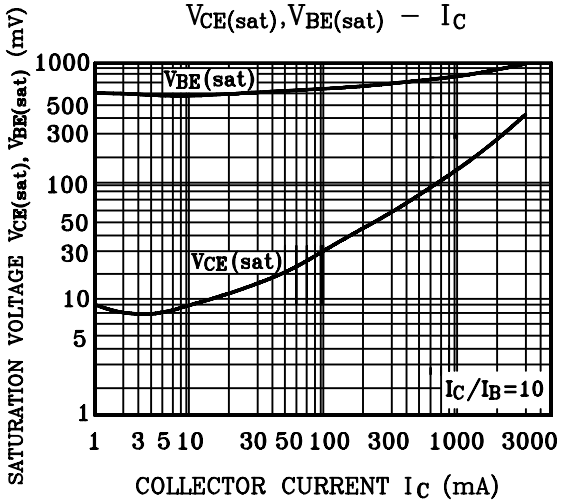
I_C – V_{CE}



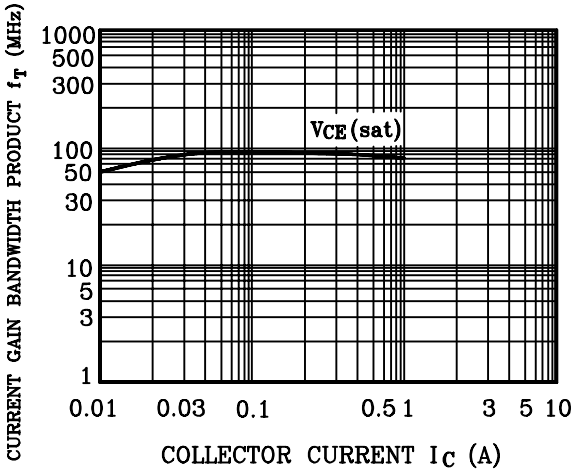
h_{FE} – I_C



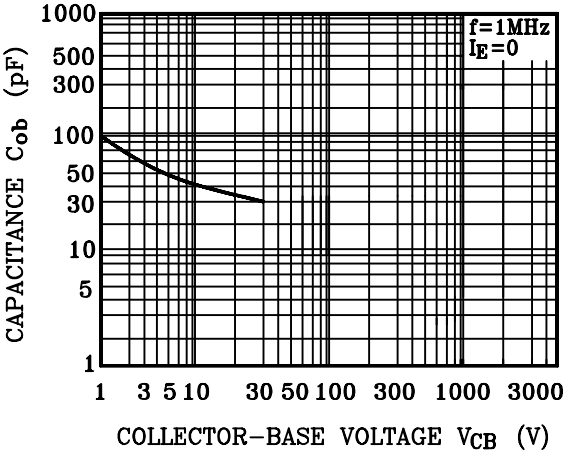
$V_{CE(sat)}$, $V_{BE(sat)}$ – I_C



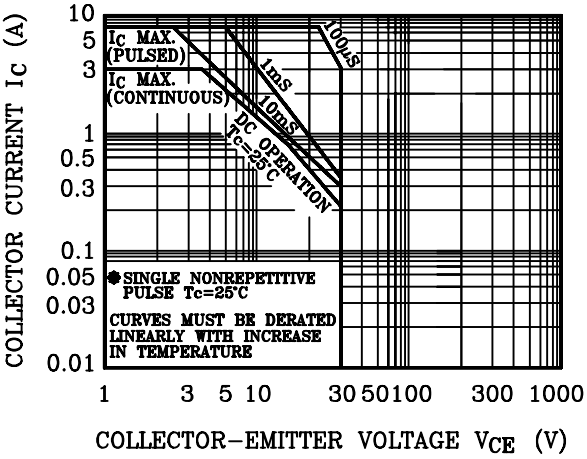
f_T – I_C



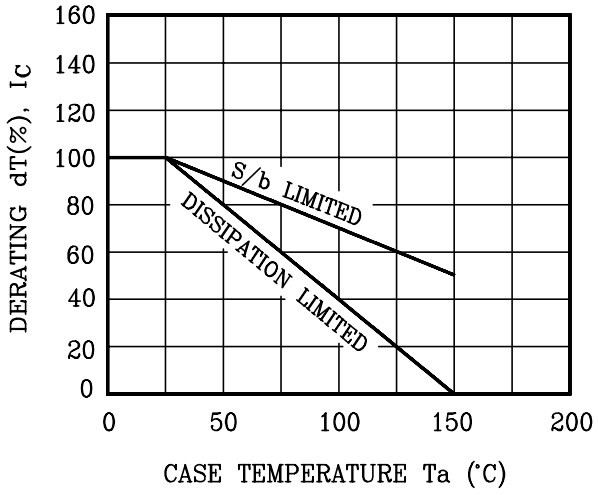
C_{ob} – V_{CB}



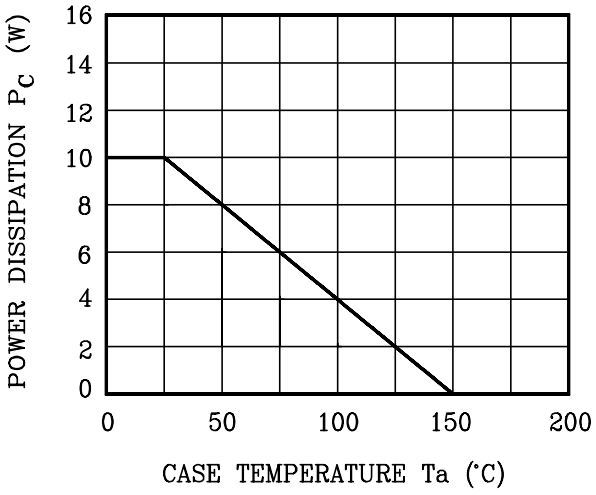
SAFE OPERATING AREA



dT – Ta


DERATING dT(%), Ic
160
140
120
100
80
60
40
20
0
S/b LIMITED
DISSIPATION LIMITED
0
50
100
150
200
CASE TEMPERATURE Ta (°C)

Pc – Ta


POWER DISSIPATION Pc (W)
16
14
12
10
8
6
4
2
0
0
50
100
150
200
CASE TEMPERATURE Ta (°C)