

AUDIO FREQUENCY POWER AMPLIFIER
LOW SPEED SWITCHING

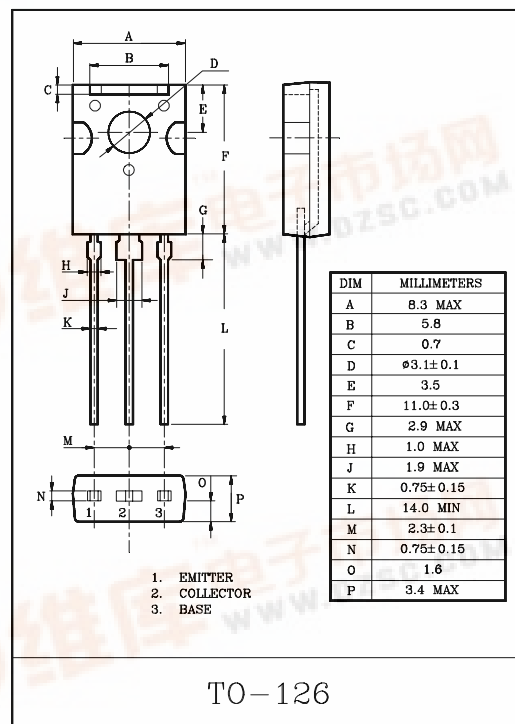
FEATURES

- Complementary to KTB772.

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V _{CB0}	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°C	P _C	1.5	W
	Tc=25°C		10	
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-55~150	°C

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

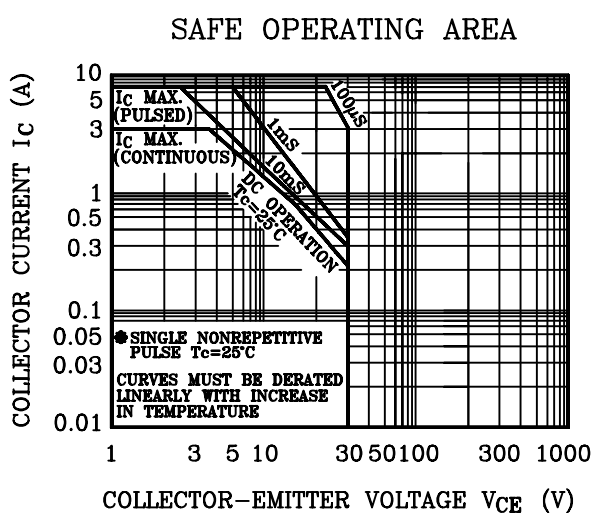
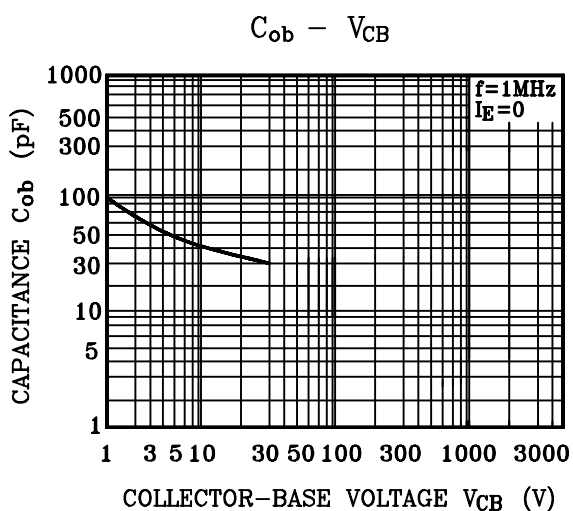
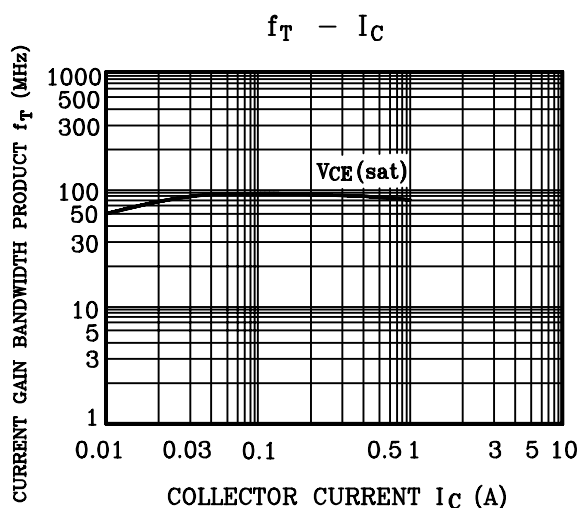
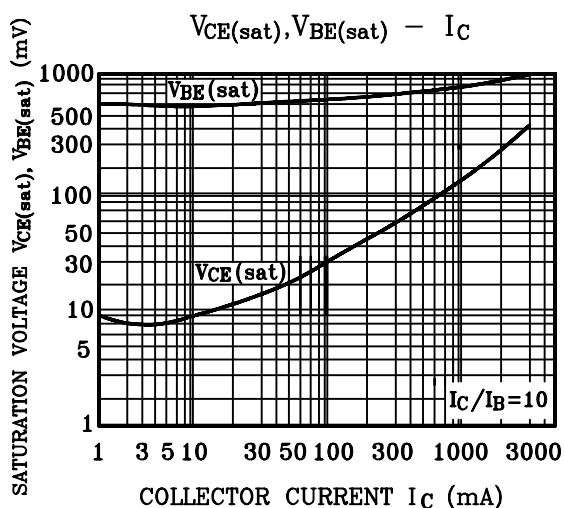
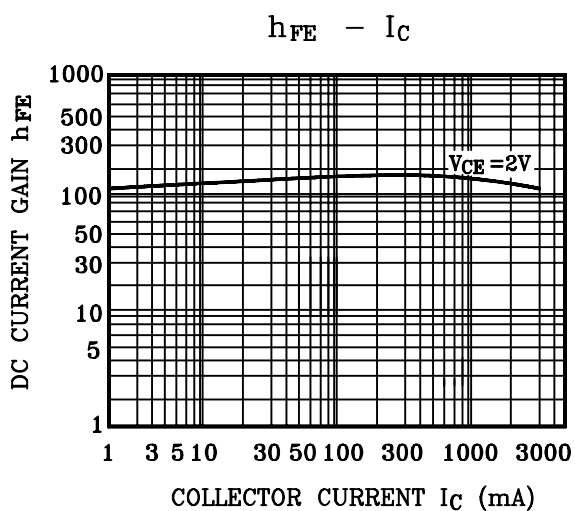
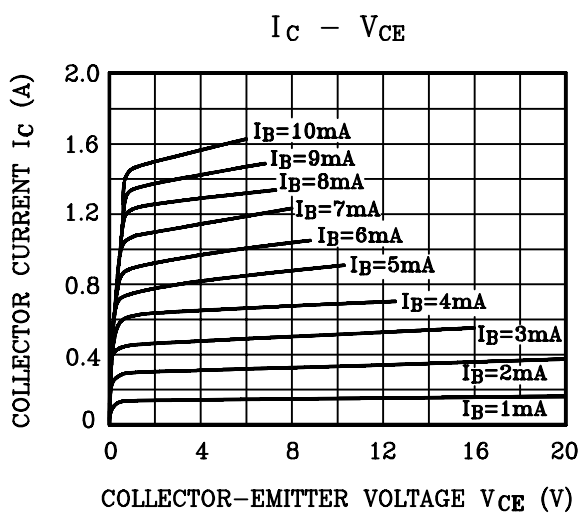


ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CB0}	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

KTD882



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