

AUDIO FREQUENCY POWER AMPLIFIER
HIGH FREQUENCY POWER AMPLIFIER

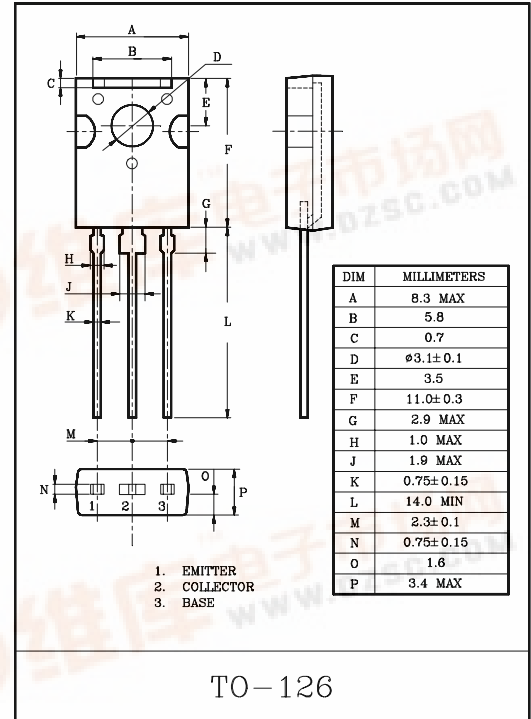
FEATURES

- Complementary to KTC2803.

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V _{CB0}	-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)		-2.5	
Base Current		I _B	-0.3	A
Collector Power Dissipation	Ta=25°C	P _C	1.5	W
	Tc=25°C		20	
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-55~150	°C

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



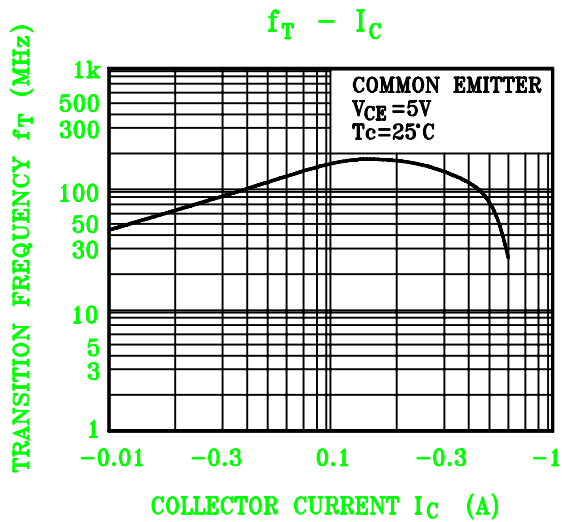
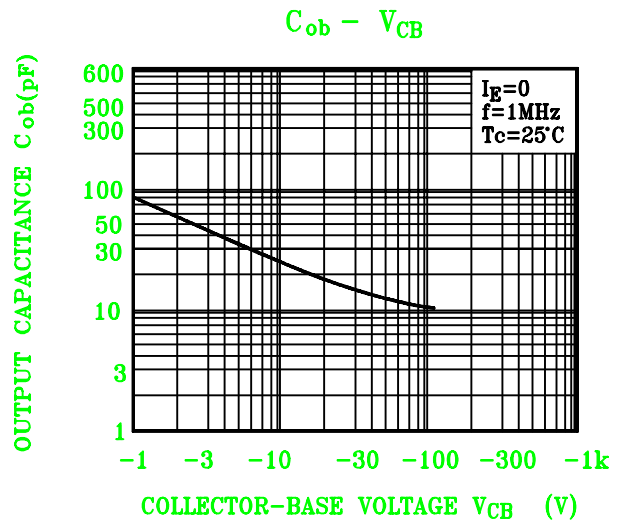
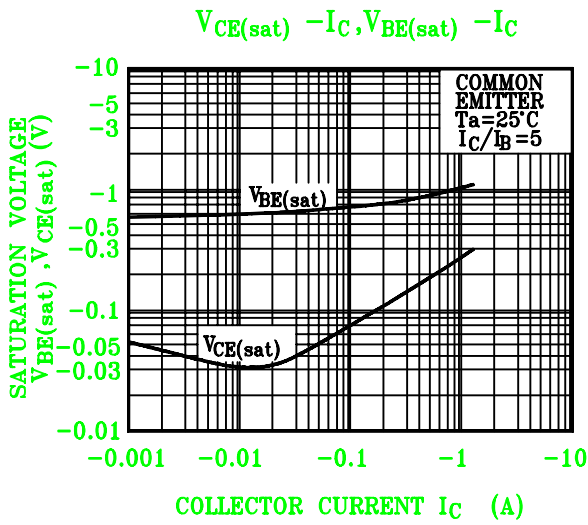
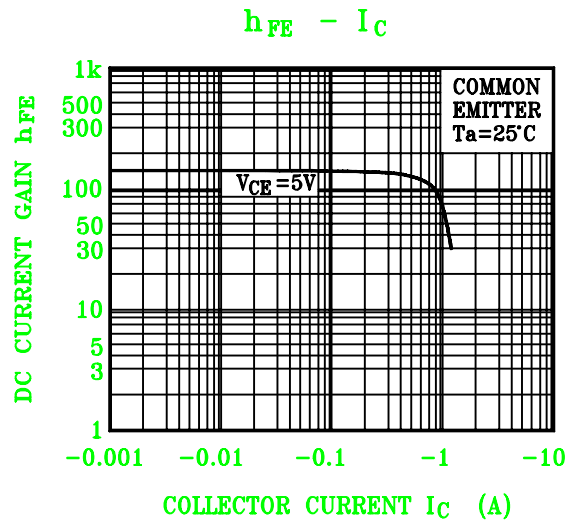
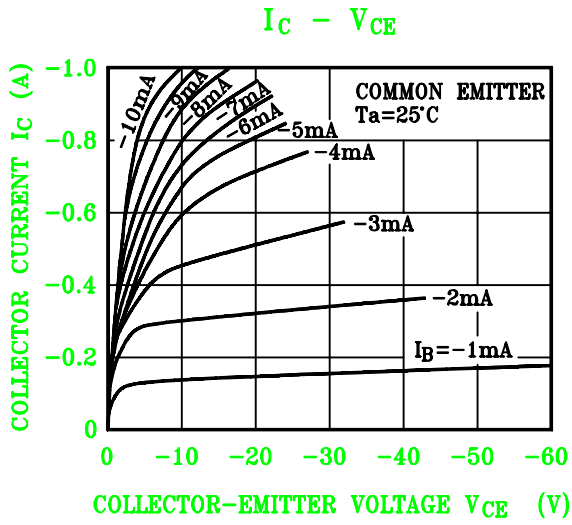
ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut of Current	I _{CB0}	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	-120	-	-	V
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =-1mA	-120	-	-	V
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	I _E =-10μA	-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, 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

Classification Y:100~200 , GR:160~320



KTA1704



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