

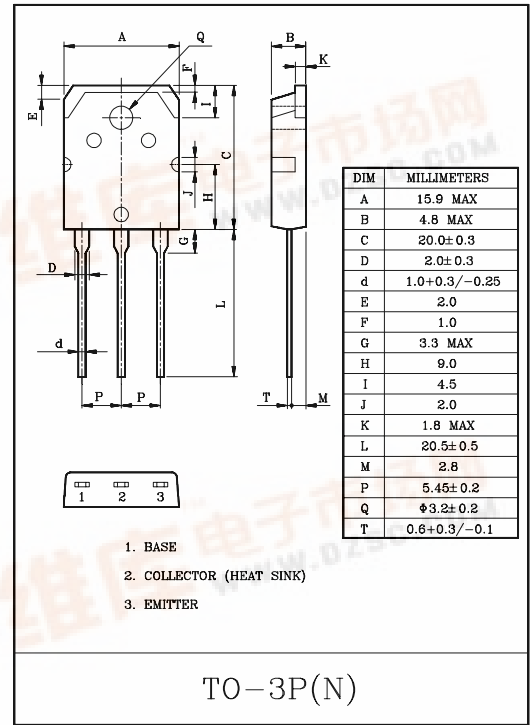
HIGH POWER AMPLIFIER APPLICATION.

FEATURES

- Complementary to KTB817.
- Recommended for 60W Audio Frequency Amplifier Output Stage.

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V _{CBO}	160	V
Collector-Emitter Voltage		V _{CEO}	140	V
Emitter-Base Voltage		V _{EBO}	6	V
Collector Current	DC	I _C	12	A
	Pulse		15	
Collector Power Dissipation (Tc=25°C)		P _C	100	W
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-55~150	°C

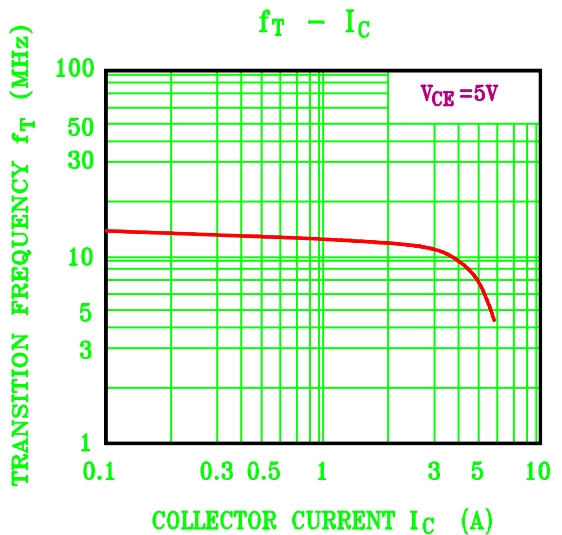
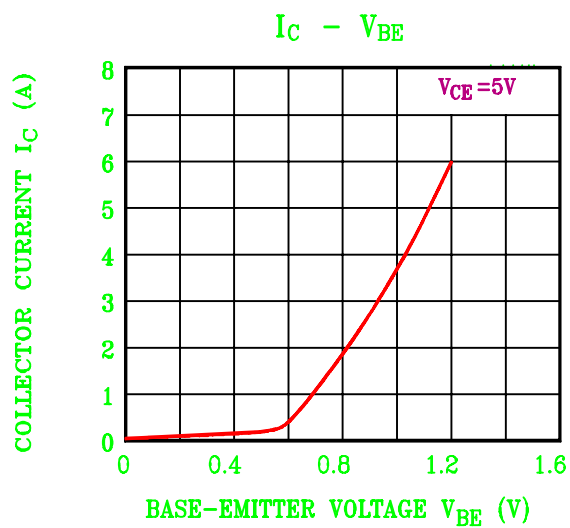
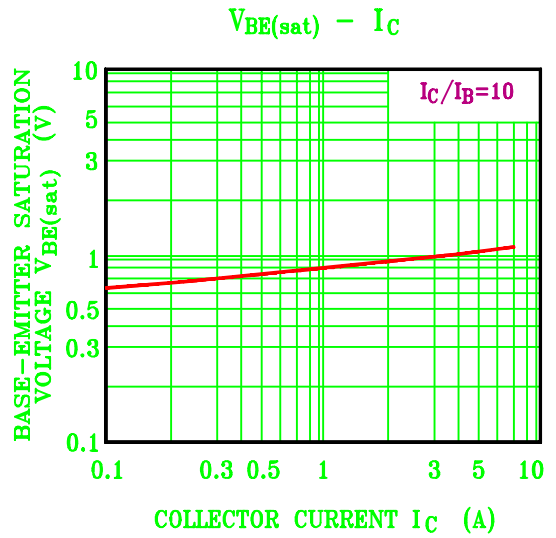
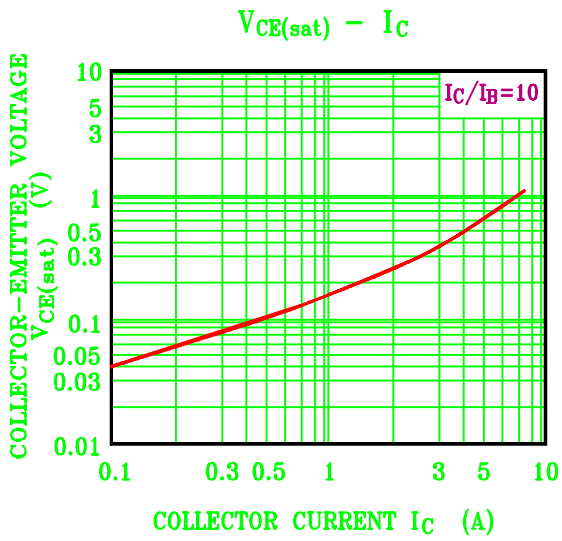
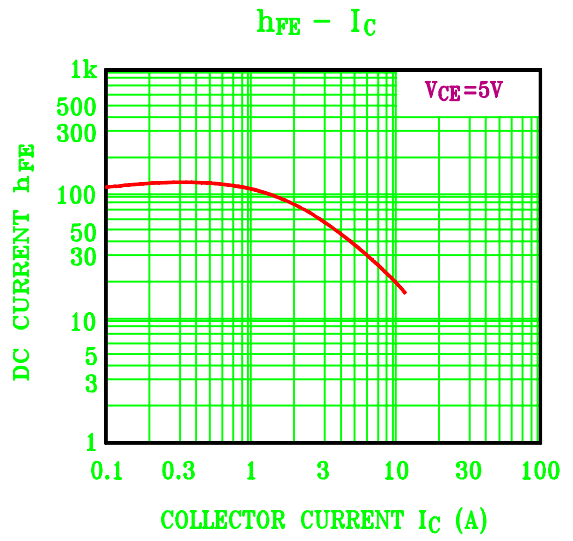
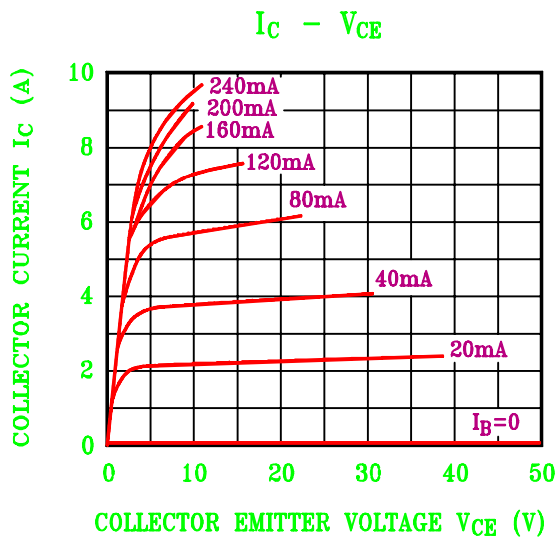


ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} =80V, I _E =0	-	-	0.1	mA
Emitter Cut-off Current	I _{EBO}	V _{EB} =4V, I _C =0	-	-	0.1	mA
DC Current Gain	h _{FE} 1(Note)	V _{CE} =5V, I _C =1A	60	-	200	
	h _{FE} 2	V _{CE} =5V, I _C =6A	20	-		
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =5A, I _B =0.5A	-	-	2.5	V
Base-Emitter On Voltage	V _{BE(ON)}	V _{CE} =5V, I _C =1A	-	-	1.5	V
Transition Frequency	f _T	V _{CE} =5V, I _C =1A	-	15	-	MHz
Output Capacitance	C _{ob}	V _{CB} =10V, f=1MHz	-	210	-	pF
Turn On Time	t _{on}	V _{CC} =20V I _C =1A=10·I _{B1} -10·I _{B2} R _L =20Ω	-	0.26	-	μS
Fall Time	t _f		-	0.68	-	
Storage Time	t _{stg}		-	6.88	-	

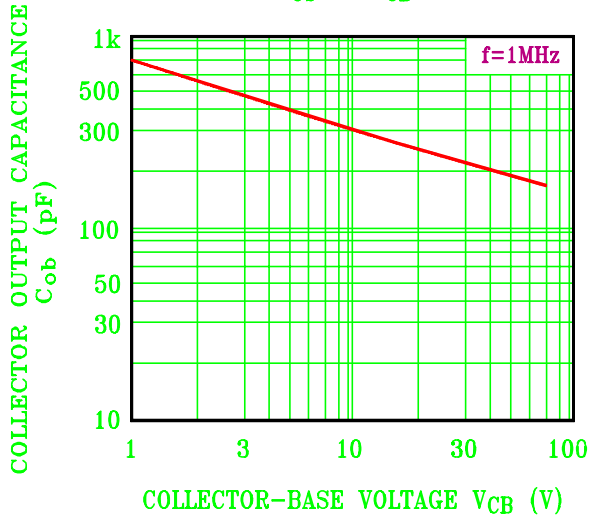
Note : h_{FE} Classification O:60~120 , Y:100~200

KTD1047



KTD1047

$C_{ob} - V_{CB}$



SAFE OPERATING AREA

