

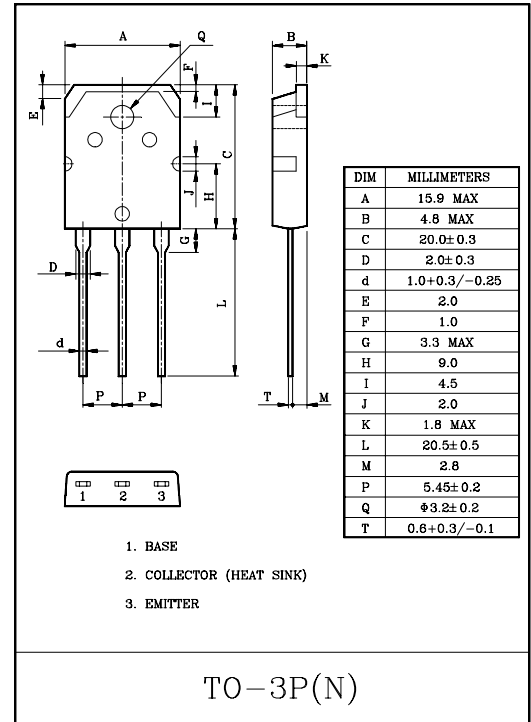
### HIGH POWER AMPLIFIER APPLICATION.

#### FEATURES

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

#### MAXIMUM RATINGS (Ta=25°C)

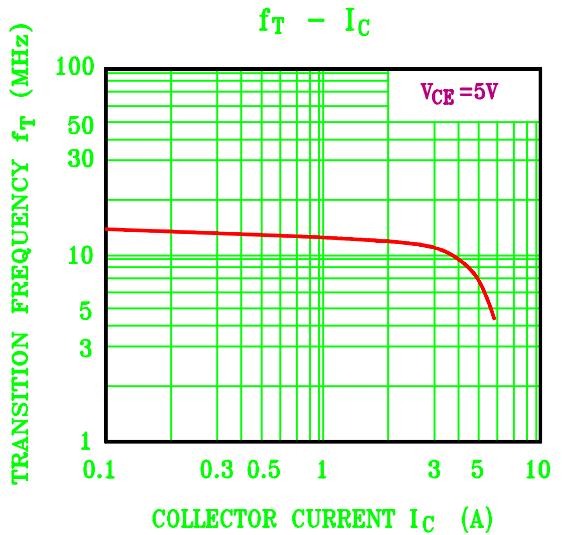
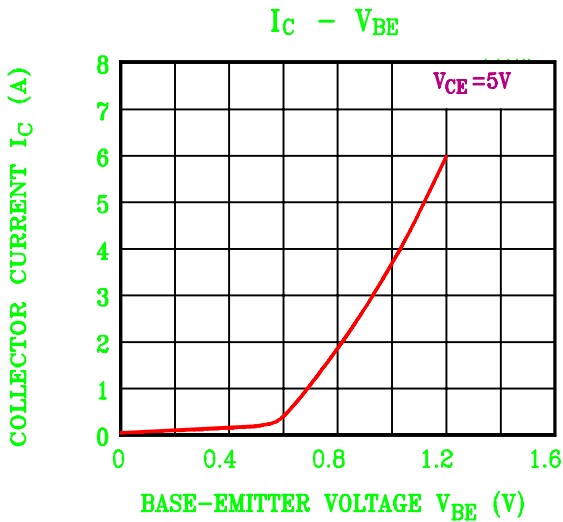
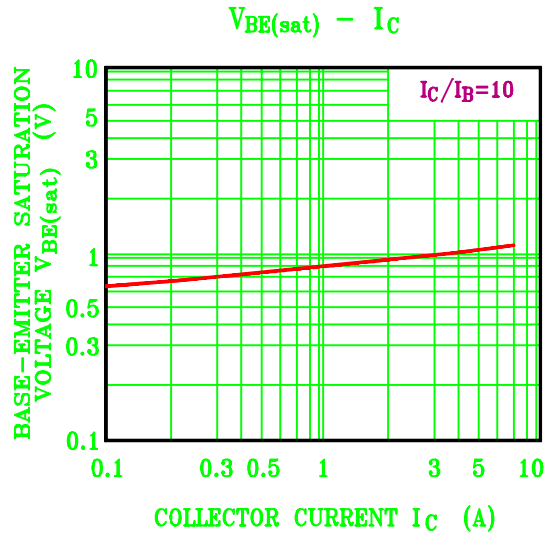
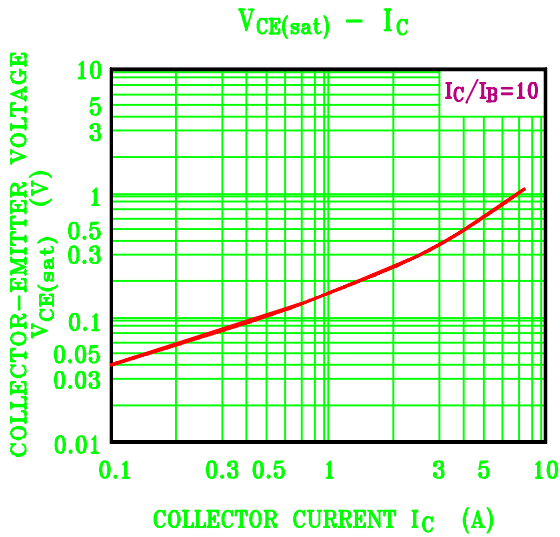
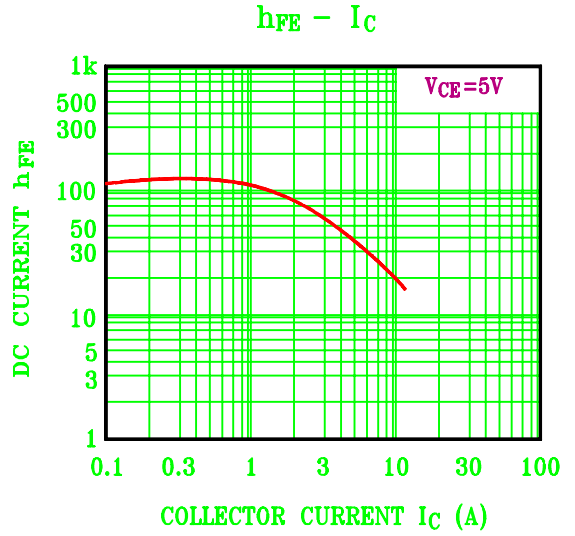
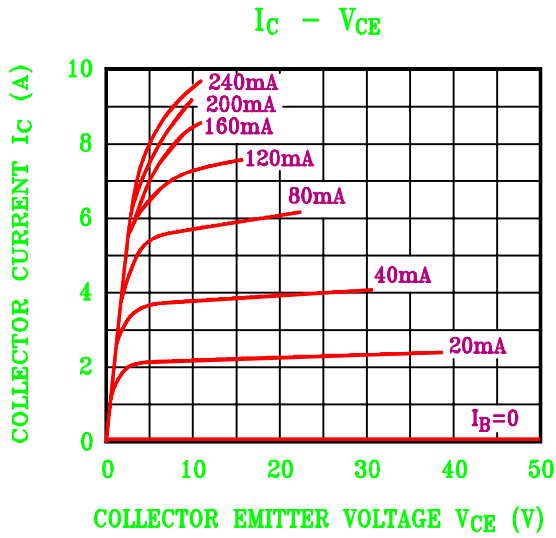
CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V <sub>CBO</sub>	160	V
Collector-Emitter Voltage		V <sub>CEO</sub>	140	V
Emitter-Base Voltage		V <sub>EBO</sub>	6	V
Collector Current	DC	I <sub>C</sub>	12	A
	Pulse		15	
Collector Power Dissipation (T <sub>c</sub> =25°C)		P <sub>C</sub>	100	W
Junction Temperature		T <sub>j</sub>	150	°C
Storage Temperature Range		T <sub>stg</sub>	-55~150	°C



#### ELECTRICAL CHARACTERISTICS (Ta=25°C)

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

Note : h<sub>FE</sub> Classification O:60~120 , Y:100~200



# KTD1047

