

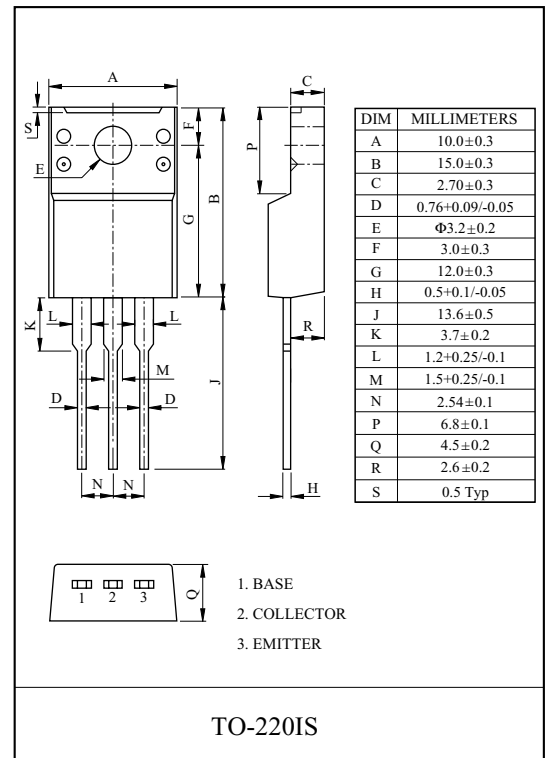
POWER AMPLIFIER APPLICATIONS.
DRIVER STAGE AMPLIFIER APPLICATIONS.

FEATURES

- High Transition Frequency : $f_T=70\text{MHz(Typ.)}$
- Complementary Pair with KTC4793.

MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-230	V
Collector-Emitter Voltage		V_{CEO}	-230	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current		I_C	-1	A
Base Current		I_B	-0.1	A
Collector Power Dissipation	Ta=25 °C	P_C	2.0	W
	Tc=25 °C		20	
Junction Temperature		T_j	150	°C
Storage Temperature Range		T_{stg}	-55 ~ 150	°C

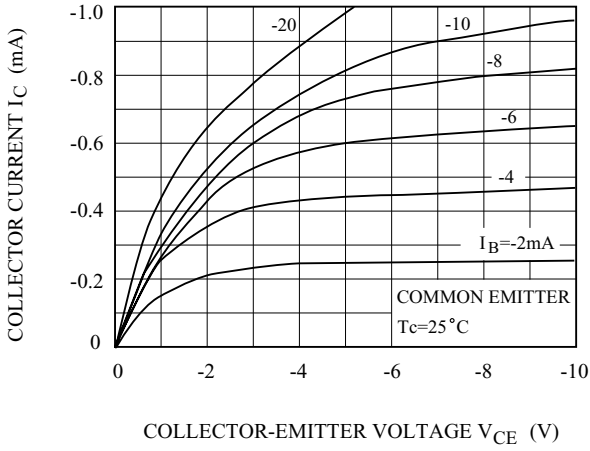


ELECTRICAL CHARACTERISTICS (Ta=25 °C)

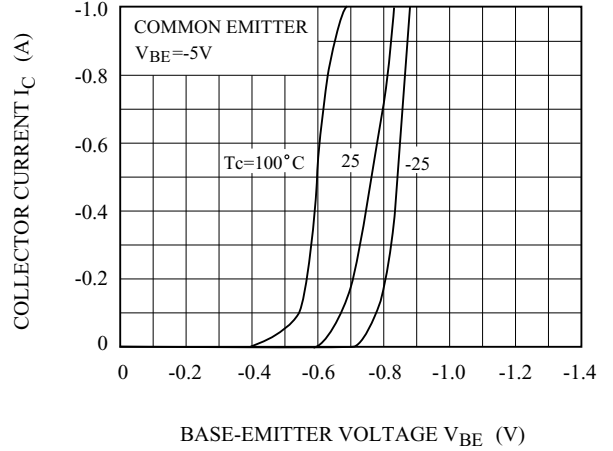
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=-230V, I_E=0$	-	-	-1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5V, I_C=0$	-	-	-1.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-10mA, I_B=0$	-230	-	-	V
DC Current Gain	h_{FE}	$V_{CE}=-5V, I_C=-100mA$	100	-	320	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-500mA, I_B=-50mA$	-	-	-1.5	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=-5V, I_C=-500mA$	-	-	-1.0	V
Transition Frequency	f_T	$V_{CE}=-10V, I_C=-100mA$	-	70	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$	-	30	-	pF

KTA1837

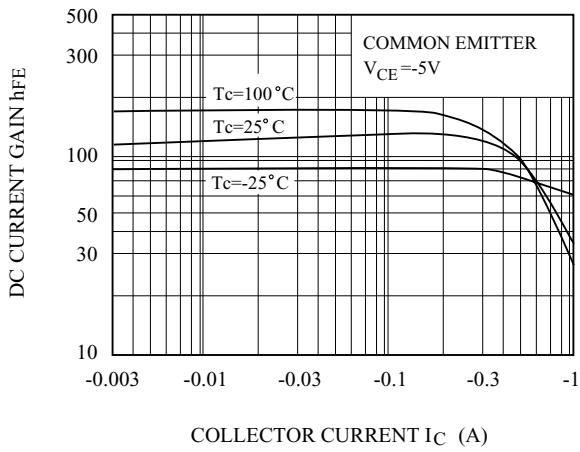
$I_C - V_{CE}$



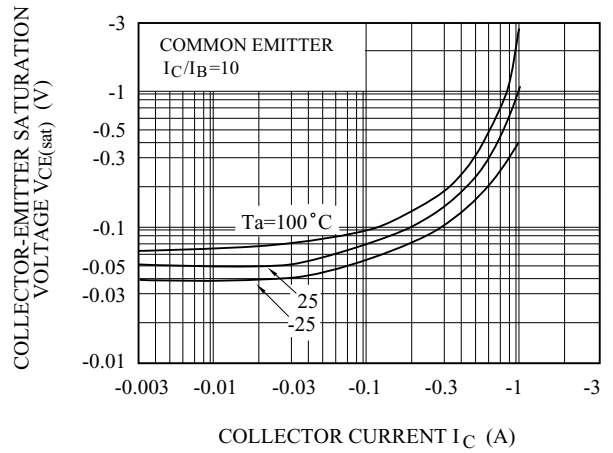
$I_C - V_{BE}$



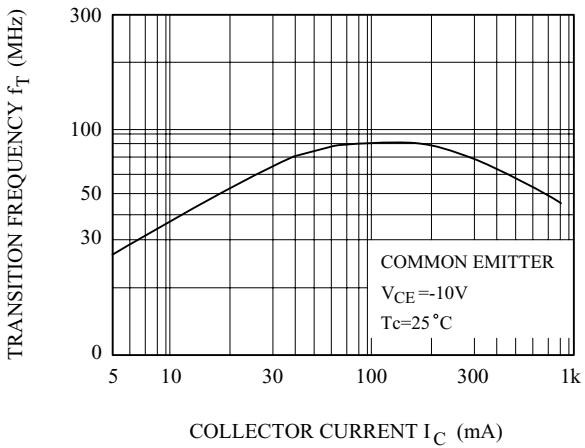
$h_{FE} - I_C$



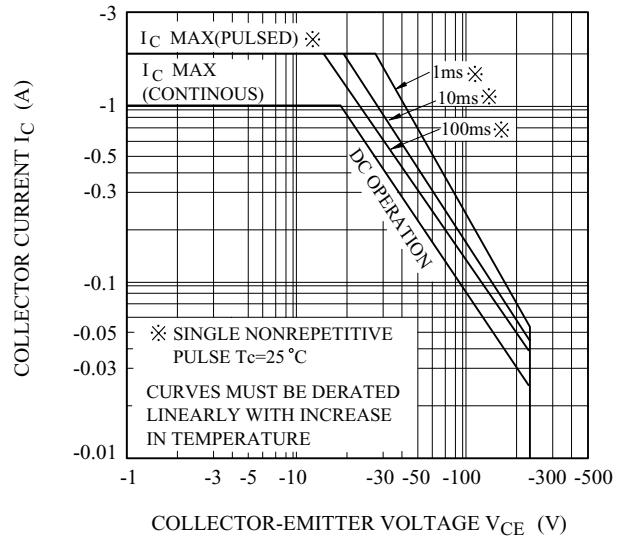
$V_{CE(sat)} - I_C$



$f_T - I_C$



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