

AUDIO FREQUENCY POWER AMPLIFIER
LOW SPEED SWITCHING

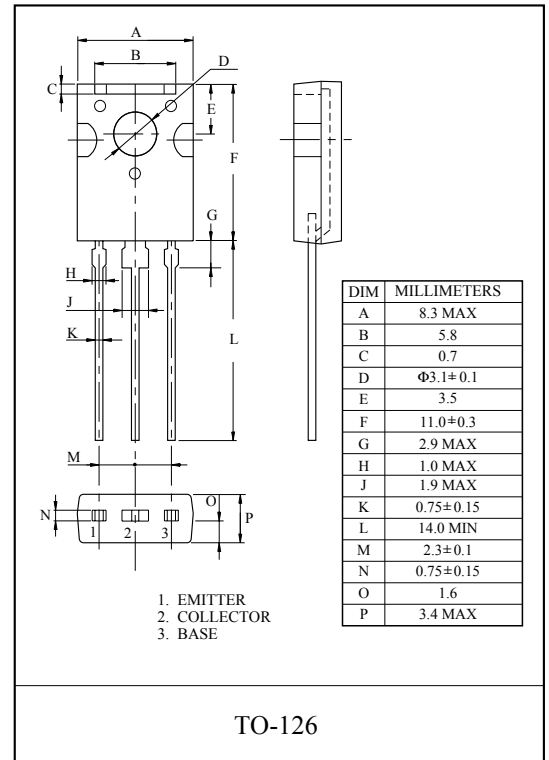
FEATURES

- Complementary to KTD882.

MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-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)	I_{CP}	-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 $\leq 10\text{mS}$, Duty Cycle $\leq 50\%$.



ELECTRICAL CHARACTERISTICS (Ta=25°C)

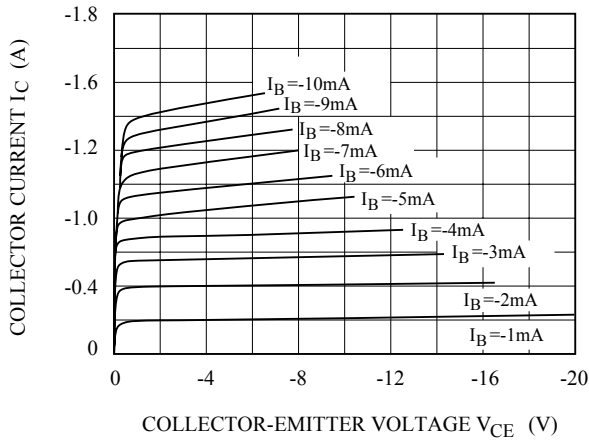
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -30\text{V}$, $I_E = 0$	-	-	-1	μA
Emitter-Cut-off Current	I_{EBO}	$V_{EB} = -3\text{V}$, $I_C = 0$	-	-	-1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE} = -2\text{V}$, $I_C = -20\text{mA}$	30	220	-	
	$h_{FE(2)}$ (Note)	$V_{CE} = -2\text{V}$, $I_C = -1\text{A}$	100	160	400	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -2\text{A}$, $I_B = -0.2\text{A}$	-	-0.3	-0.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -2\text{V}$, $I_B = -0.2\text{A}$	-	-1.0	-2.0	V
Current Gain Bandwidth Product	f_T	$V_{CE} = -5\text{V}$, $I_C = -0.1\text{A}$	-	80	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10\text{V}$, $I_E = 0$, $f = 1\text{MHz}$	-	55	-	pF

* Pulse Test : Pulse Width $\leq 350\mu\text{S}$, Duty Cycle $\leq 2\%$ Pulsed

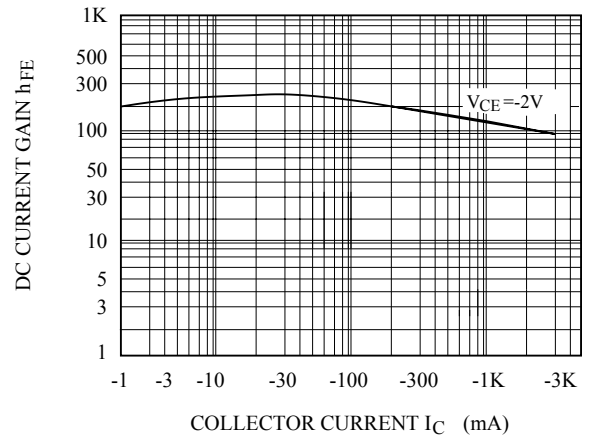
Note: $h_{FE(2)}$ Classification O:100 ~ 200, Y:160 ~ 320, GR:200 ~ 400

KTB772

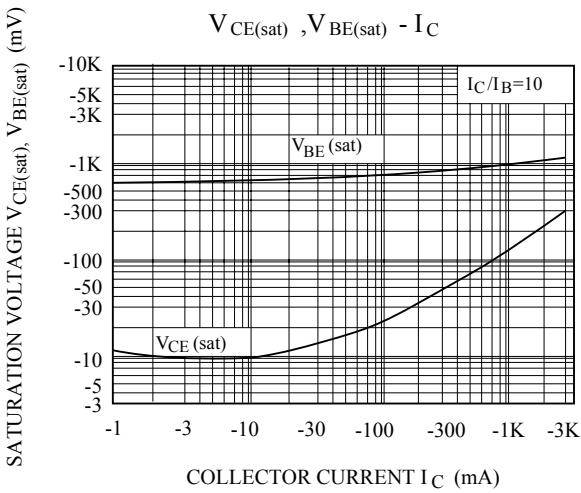
$I_C - V_{CE}$



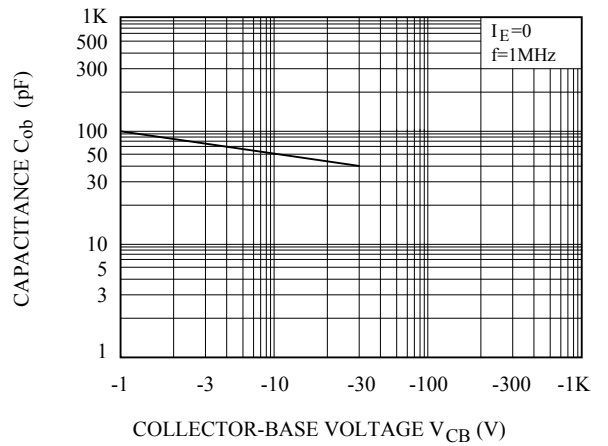
$h_{FE} - I_C$



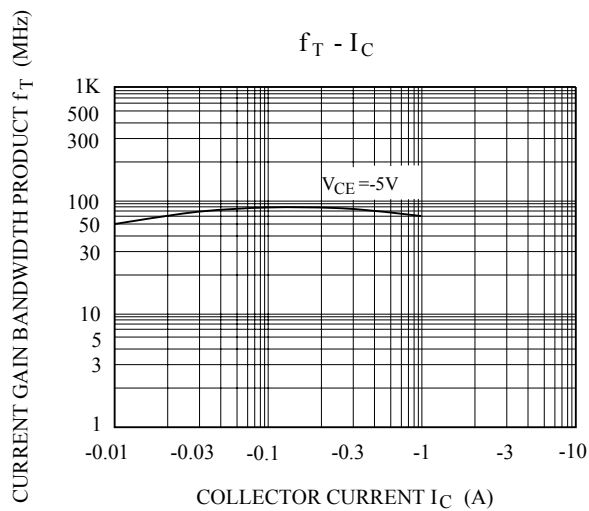
$V_{CE(sat)}, V_{BE(sat)} - I_C$



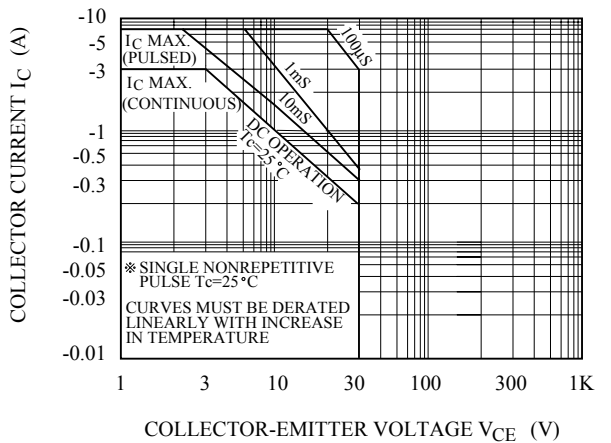
$C_{ob} - V_{CB}$



$f_T - I_C$

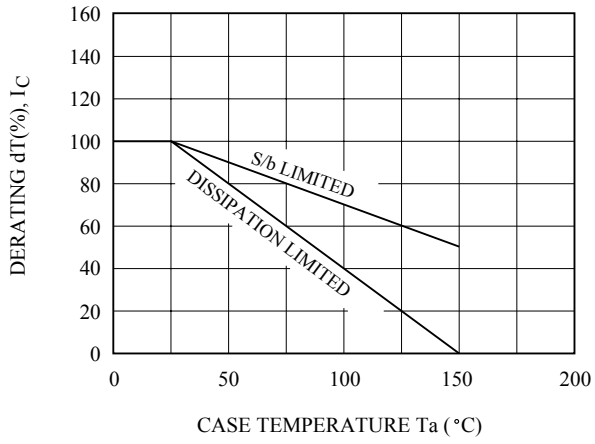


SAFE OPERATING AREA



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dT - Ta



Pc - Ta

