

AUDIO FREQUENCY POWER AMPLIFIER  
LOW SPEED SWITCHING

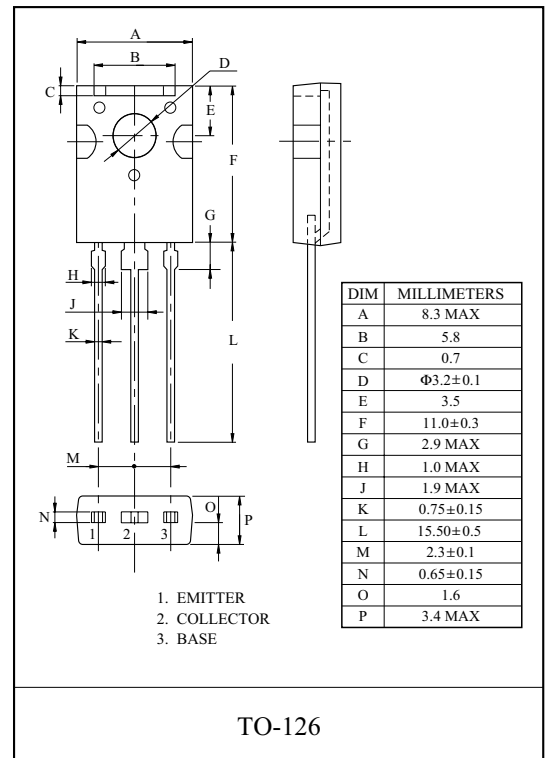
### FEATURES

- 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)

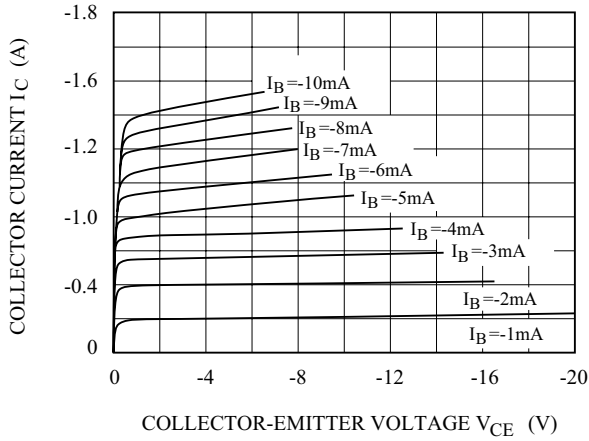
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = -30\text{V}$ , $I_E = 0$	-	-	-1	$\mu\text{A}$
Emitter-Cut-off Current	$I_{EBO}$	$V_{EB} = -3\text{V}$ , $I_C = 0$	-	-	-1	$\mu\text{A}$
DC Current Gain	$h_{FE}(1)$	$V_{CE} = -2\text{V}$ , $I_C = -20\text{mA}$	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

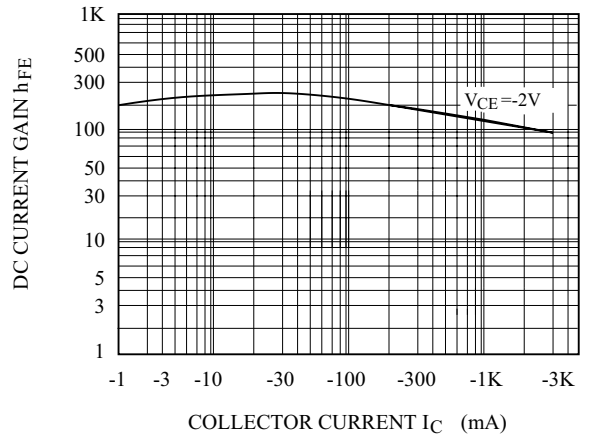
Note:  $h_{FE}(2)$  Classification O:100 ~ 200, Y:160 ~ 320, GR:200 ~ 400

# KTB772

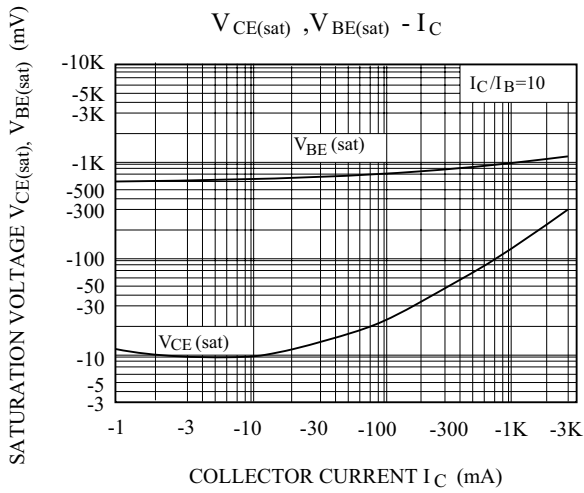
$I_C - V_{CE}$



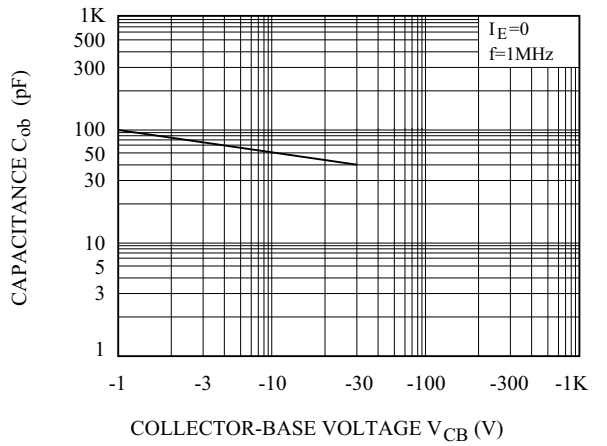
$h_{FE} - I_C$



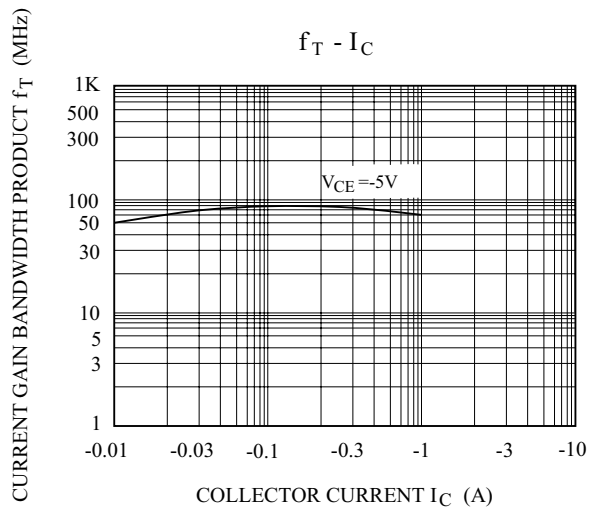
$V_{CE(sat)}, V_{BE(sat)} - I_C$



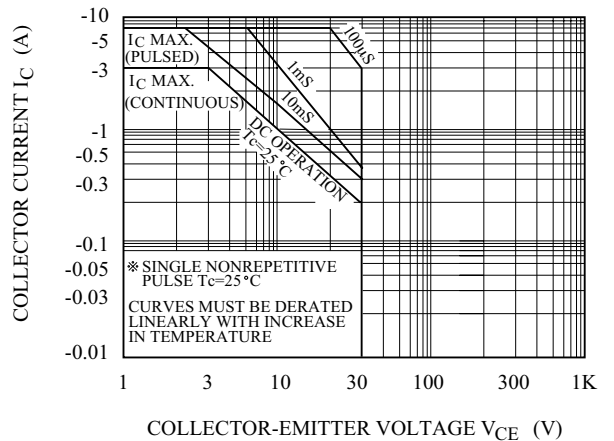
$C_{ob} - V_{CB}$



$f_T - I_C$



SAFE OPERATING AREA



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