

AUDIO FREQUENCY POWER AMPLIFIER  
LOW SPEED SWITCHING

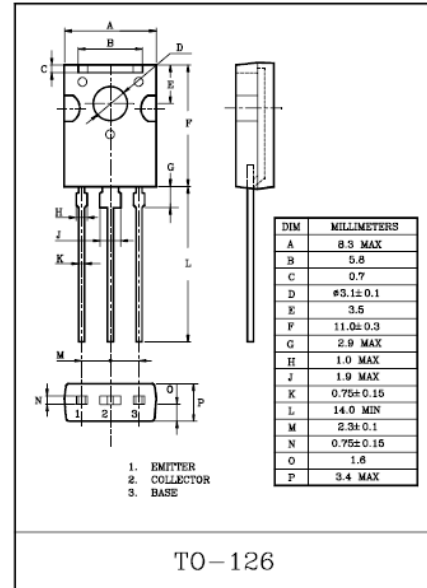
FEATURES

- Complementary to KTB772.

MAXIMUM RATINGS (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)		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	$I_{CBO}$	$V_{CB}=30V, I_E=0$	-	-	1	$\mu A$
Emitter-Cut-off Current	$I_{EBO}$	$V_{EB}=3V, I_C=0$	-	-	1	$\mu A$
DC Current Gain *	$h_{FE}(1)$	$V_{CE}=2V, I_C=20mA$	30	150	-	
	$h_{FE}(2)$ (Note)	$V_{CE}=2V, I_C=1A$	100	160	400	
Collector-Emitter Saturation Voltage *	$V_{CE(sat)}$	$I_C=2A, I_B=0.2A$	-	0.3	0.5	V
Base-Emitter Saturation Voltage *	$V_{BE(sat)}$	$I_C=2V, I_B=0.2A$	-	1.0	2.0	V
Current Gain Bandwidth Product	$f_T$	$V_{CE}=5V, I_C=0.1A$	-	90	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	45	-	pF

\* Pulse Test : Pulse Width  $\leq 350\mu S$ , Duty Cycle  $\leq 2\%$  Pulsed  
Note:  $h_{FE}(2)$  Classification O:100~200, Y:160~320, GR:200~400

