

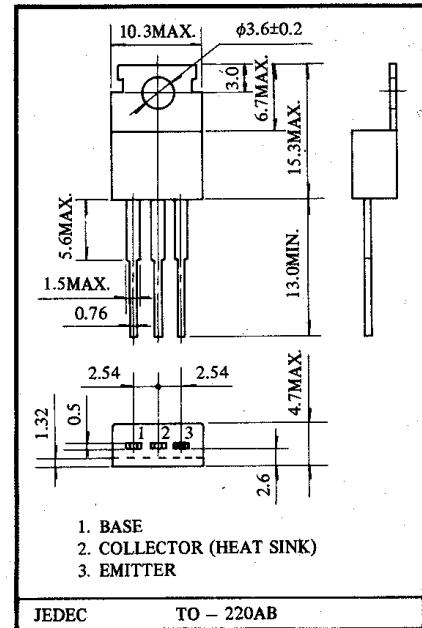
APPLICATIONS

- Power Amplifier Applications.

FEATURES

- Good Linearity of h_{FE} .
- Complementary to KTD526.
- Recommended for 20~25W High-Fidelity Audio Frequency Amplifier Output Stage.

Unit in mm



MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-80	V	Base Current	I_B	-3	A
Collector-Emitter Voltage	V_{CEO}	-80	V	Collector Power Dissipation (Tc=25°C)	P_C	30	W
Emitter-Base Voltage	V_{EBO}	-5	V	Junction Temperature	T_j	150	°C
Collector Current	I_C	-4	A	Storage Temperature Range	T_{stg}	-55 ~ 150	°C
Emitter Current	I_E	4	A				

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -80V, I_E = 0$	-	-	-30	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5V, I_C = 0$	-	-	-100	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -50mA, I_B = 0$	-80	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = -10mA, I_C = 0$	-5	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE} = -5V, I_C = -0.5A$	40	-	240	
	$h_{FE(2)}$	$V_{CE} = -5V, I_C = -3A$	15	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -3A, I_B = -0.3A$	-	-1.0	-1.7	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -5V, I_C = -3A$	-	-1.0	-1.5	V
Transition Frequency	f_T	$V_{CE} = -5V, I_C = -0.5A$	3	-	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$	-	130	-	pF

NOTE: According to $h_{FE(1)}$ Classified as follows.

R	40-80	O	70-140	Y	120-240
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