

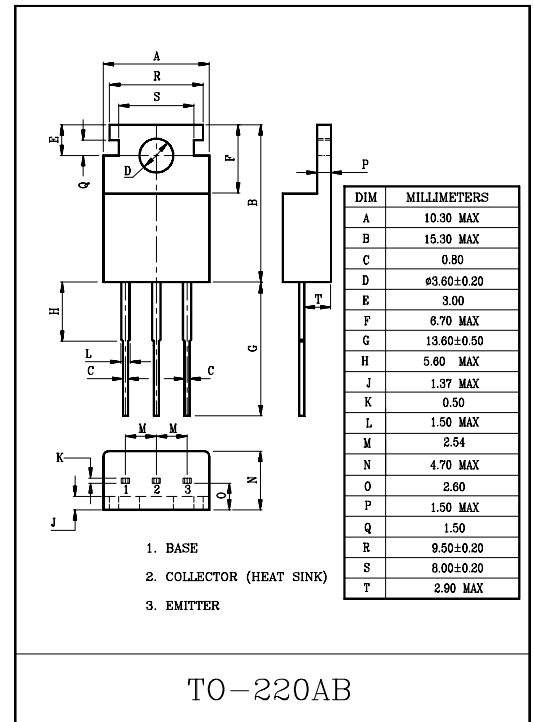
GENERAL PURPOSE APPLICATION.

FEATURES

- Good Linearity of  $h_{FE}$ .
- Complementary to KTD1352.

MAXIMUM RATINGS ( $T_a=25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	-80	V
Collector-Emitter Voltage	$V_{CEO}$	-80	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Collector Current	$I_C$	-4	A
Emitter Current	$I_E$	4	A
Base Current	$I_B$	-0.4	A
Collector Power Dissipation ( $T_c=25^\circ\text{C}$ )	$P_C$	30	W
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55~150	$^\circ\text{C}$



ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=-80\text{V}, I_E=0$	-	-	-30	$\mu\text{A}$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=-5\text{V}, I_C=0$	-	-	-100	$\mu\text{A}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-50\text{mA}, I_B=0$	-80	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=-10\text{mA}, I_C=0$	-5.0	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE}=-5\text{V}, I_C=-0.5\text{A}$	40	-	240	
	$h_{FE(2)}$	$V_{CE}=-5\text{V}, I_C=-3\text{A}$	15	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-3\text{A}, I_B=-0.3\text{A}$	-	-1.0	-1.7	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=-5\text{V}, I_C=-3\text{A}$	-	-1.0	-1.5	V
Transition Frequency	$f_T$	$V_{CE}=-5\text{V}, I_C=-0.5\text{A}$	3	-	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$	-	130	-	pF

Note :  $h_{FE(1)}$  Classification R:40~80 , O:70~140 , Y:120~240

