

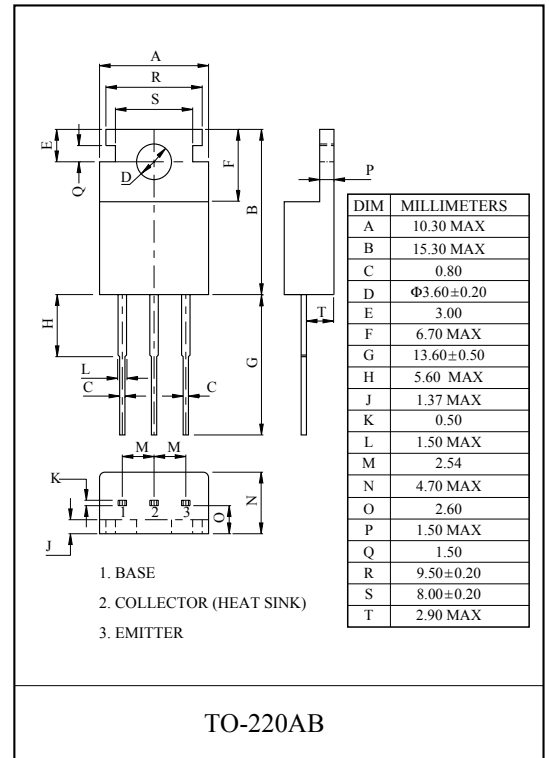
GENERAL PURPOSE APPLICATION.

FEATURES

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

MAXIMUM RATING (Ta=25°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 (Tc=25°C)	P_C	30	W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C



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	$V_{(BR)EBO}$	$I_E=-10mA, I_C=0$	-5.0	-	-	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 : $h_{FE(1)}$ Classification R:40 ~ 80 , O:70 ~ 140 , Y:120 ~ 240

