

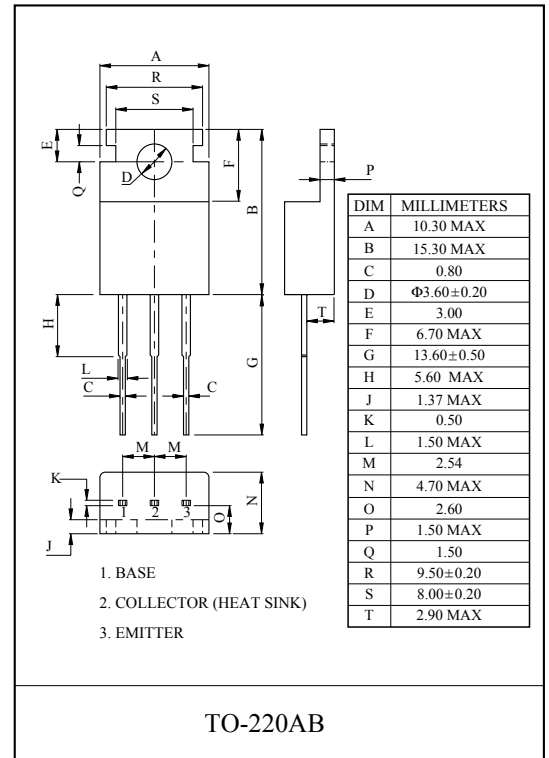
GENERAL PURPOSE APPLICATION.

### FEATURES

- Good Linearity of  $h_{FE}$ .
- Complementary to KTC3230.

### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	-30	V
Collector-Emitter Voltage	$V_{CEO}$	-30	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Collector Current	$I_C$	-3	A
Emitter Current	$I_E$	3	A
Collector Power Dissipation (Tc=25°C)	$P_C$	10	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	$I_{CBO}$	$V_{CB} = -20V, I_E = 0$	-	-	-1.0	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB} = -5V, I_C = 0$	-	-	-1.0	$\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -10mA, I_B = 0$	-30	-	-	V
Emitter Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = -1mA, I_C = 0$	-5	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE} = -2V, I_C = -0.5A$	70	-	240	
	$h_{FE(2)}$	$V_{CE} = -2V, I_C = -2.5A$	25	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -2A, I_B = -0.2A$	-	-0.3	-0.8	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE} = -2V, I_C = -0.5A$	-	-0.75	-1.0	V
Transition Frequency	$f_T$	$V_{CE} = -2V, I_C = -0.5A$	-	100	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB} = -10V, I_E = 0, f = 1MHz$	-	40	-	pF

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

