

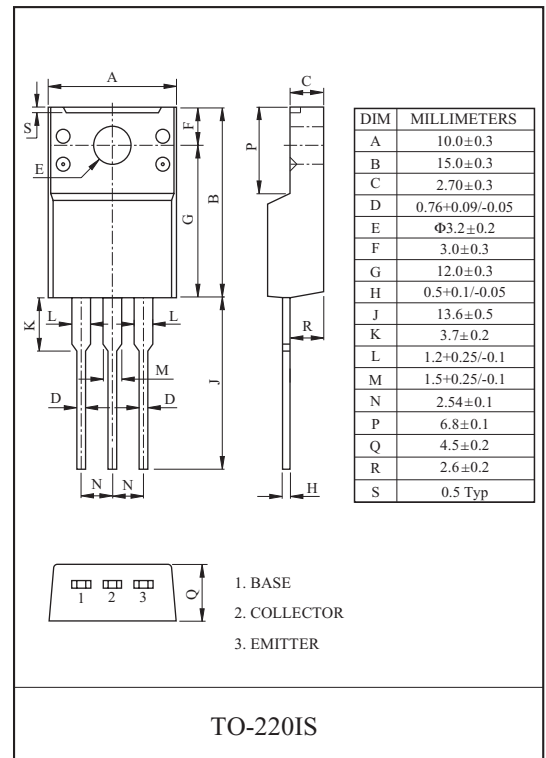
### GENERAL PURPOSE APPLICATION.

### FEATURES

- Good Linearity of  $h_{FE}$ .
- Complementary to KTB1368.
- Suffix U : Qualified to AEC-Q101.  
ex) KTD2060-Y-U/PU

### 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
Base Current	$I_B$	0.4	A
Collector Power Dissipation (Tc=25 °C)	$P_C$	25	W
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	



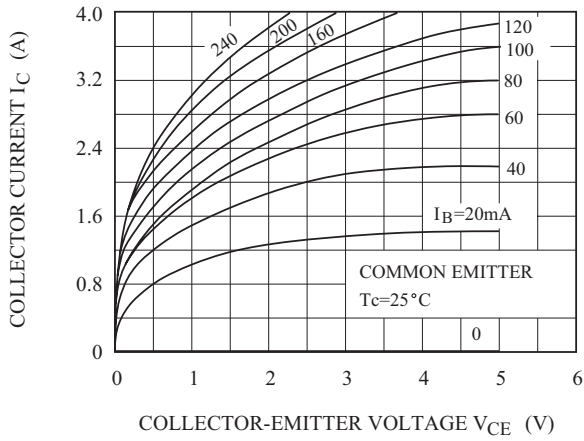
### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=80V, I_E=0$	-	-	30	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$	-	-	100	$\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=50mA, I_B=0$	80	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_C=10mA, I_B=0$	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	50	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=3A, I_B=0.3A$	-	0.45	1.5	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=5V, I_C=3A$	-	1.0	1.5	V
Transition Frequency	$f_T$	$V_{CE}=5V, I_C=0.5A$	-	8.0	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	90	-	pF

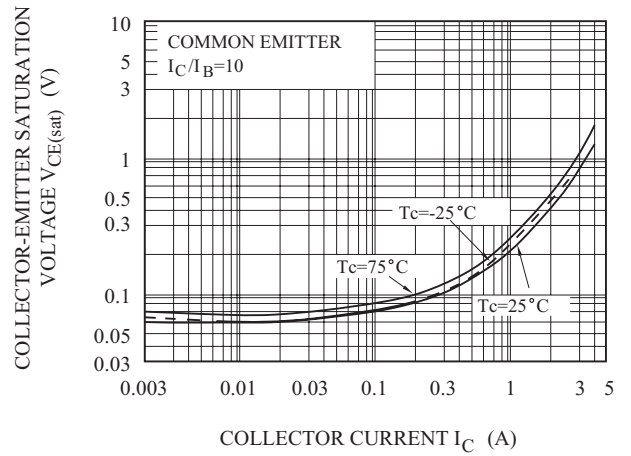
Note :  $h_{FE(1)}$  Classification R:40 80, O:70 140, Y:120 240

# KTD2060

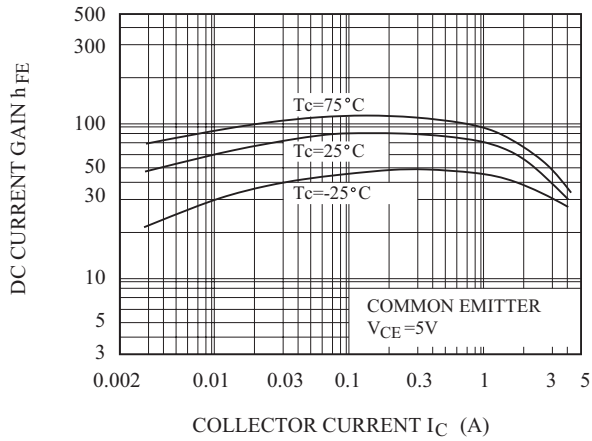
$I_C - V_{CE}$



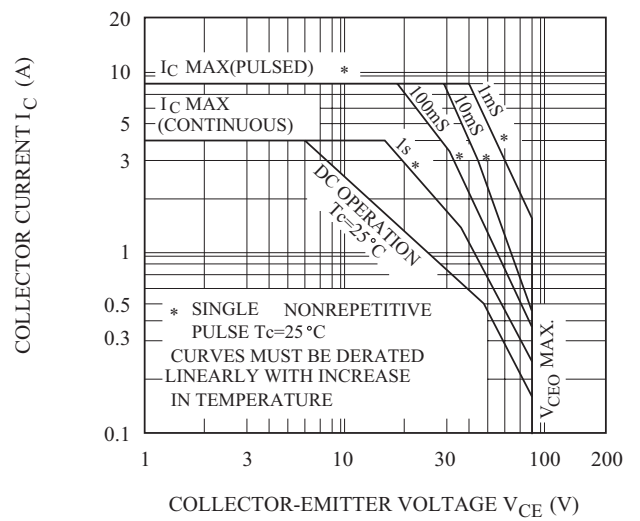
$V_{CE(sat)} - I_C$



$h_{FE} - I_C$



SAFE OPERATING AREA



$P_C - T_a$

