

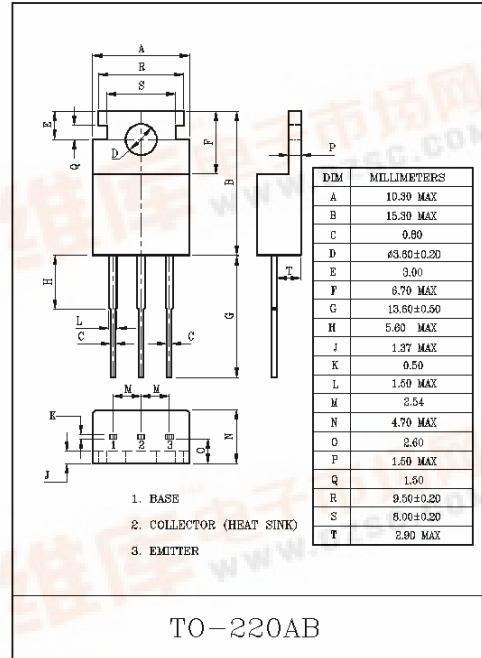
HIGH VOLTAGE APPLICATION.

FEATURES

- High Transition Frequency :  $f_T=100\text{MHz}$ (Typ.).
- Complementary to KTA968A.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CB0}$	180	V
Collector-Emitter Voltage	$V_{CE0}$	180	V
Emitter-Base Voltage	$V_{EB0}$	5	V
Collector Current	$I_C$	1.5	A
Emitter Current	$I_E$	-1.5	A
Collector Power Dissipation ( $T_c=25^\circ\text{C}$ )	$P_C$	25	W
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55~150	$^\circ\text{C}$



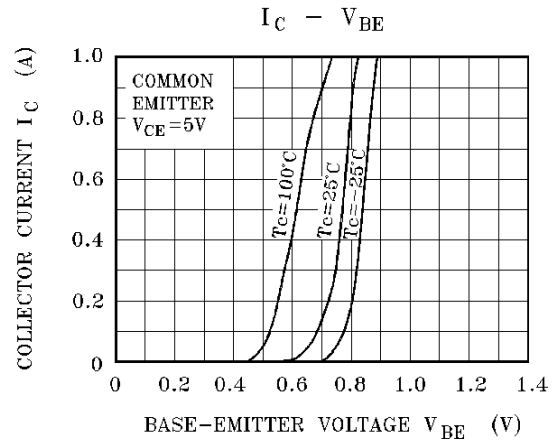
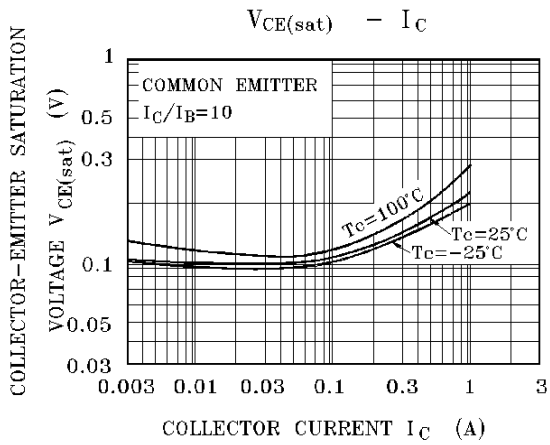
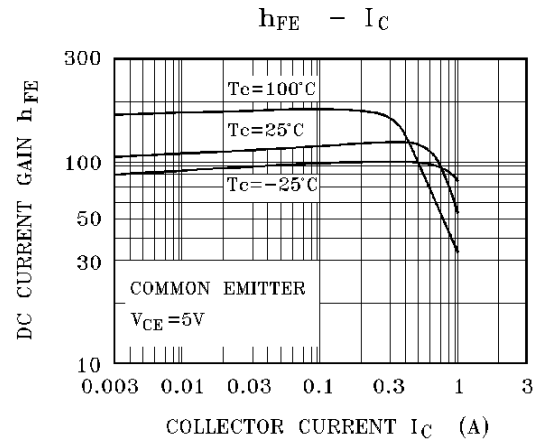
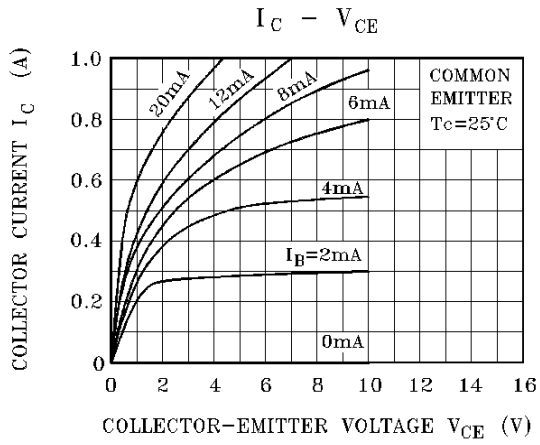
ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CB0}$	$V_{CB}=160\text{V}, I_E=0$	-	-	1.0	$\mu\text{A}$
Emitter Cut-off Current	$I_{EB0}$	$V_{EB}=5\text{V}, I_C=0$	-	-	1.0	$\mu\text{A}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10\text{mA}, I_B=0$	180	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=1\text{mA}, I_C=0$	5.0	-	-	V
DC Current Gain	$h_{FE}(\text{Note})$	$V_{CE}=5\text{V}, I_C=100\text{mA}$	70	-	240	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500\text{mA}, I_B=50\text{mA}$	-	-	1.5	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=5\text{V}, I_C=500\text{mA}$	-	-	1.0	V
Transition Frequency	$f_T$	$V_{CE}=10\text{V}, I_C=100\text{mA}$	-	100	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$	-	25	-	pF

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



# KTC2238A



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