

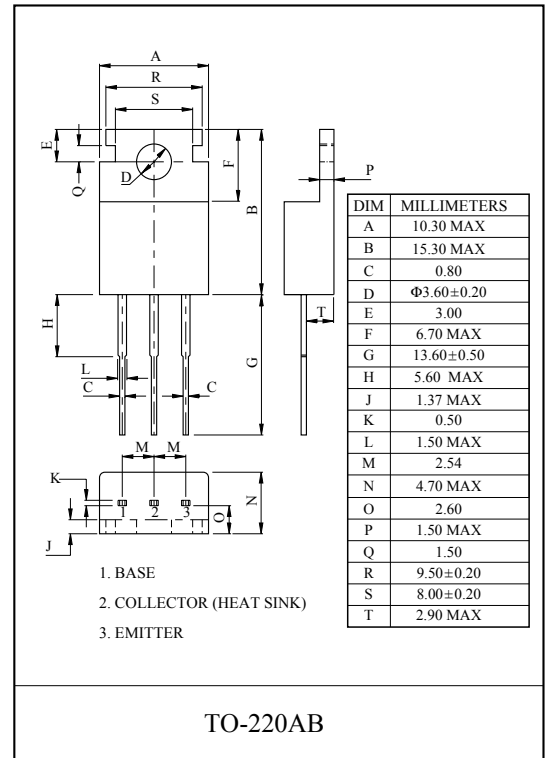
HIGH VOLTAGE APPLICATION.

FEATURES

- High Transition Frequency : $f_T=100\text{MHz(Typ.)}$.
- Complementary to KTC2238/A.

MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	KTA968	V_{CBO}	-160	V
	KTA968A		-180	
Collector-Emitter Voltage	KTA968	V_{CEO}	-160	V
	KTA968A		-180	
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current		I_C	-1.5	A
Emitter Current		I_E	1.5	A
Collector Power Dissipation (Tc=25°C)		P_C	25	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}	$V_{CB}=-160\text{V}, I_E=0$	-	-	-1.0	μA
Emitter Cut-off Current		I_{EBO}	$V_{EB}=-5\text{V}, I_C=0$	-	-	-1.0	μA
Collector-Emitter Breakdown Voltage	KTA968	$V_{(BR)CEO}$	$I_C=-10\text{mA}, I_B=0$	-160	-	-	V
	KTA968A			-180	-	-	
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}	$V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$	-	30	-	pF

Note : h_{FE} Classification 0:70 ~ 140, Y:120 ~ 240