

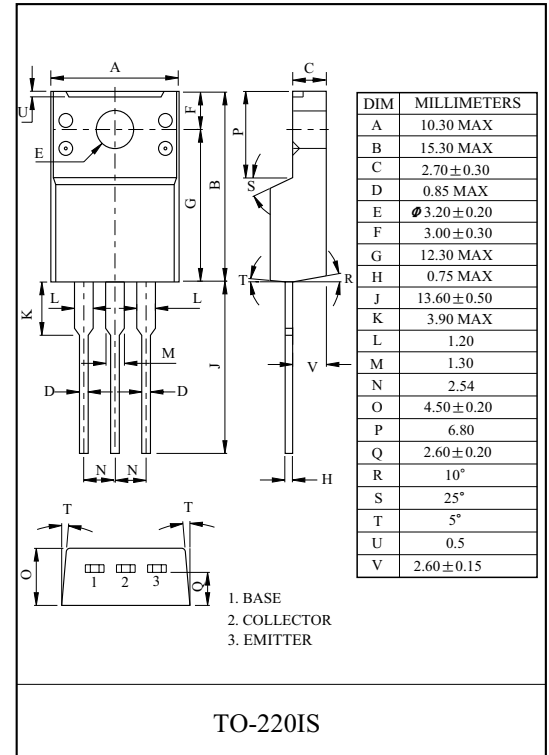
HIGH VOLTAGE APPLICATION.

### FEATURES

- High Transition Frequency :  $f_T=100\text{MHz(Typ.)}$ .
- Complementary to KTA1659/A.

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

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	KTC4370	$V_{CBO}$	160	V
	KTC4370A		180	
Collector-Emitter Voltage	KTC4370	$V_{CEO}$	160	V
	KTC4370A		180	
Emitter-Base Voltage		$V_{EBO}$	5	V
Collector Current		$I_C$	1.5	A
Base Current		$I_B$	0.15	A
Collector Power Dissipation ( $T_c=25^\circ\text{C}$ )		$P_C$	20	W
Junction Temperature		$T_j$	150	$^\circ\text{C}$
Storage Temperature Range		$T_{stg}$	-55 ~ 150	$^\circ\text{C}$

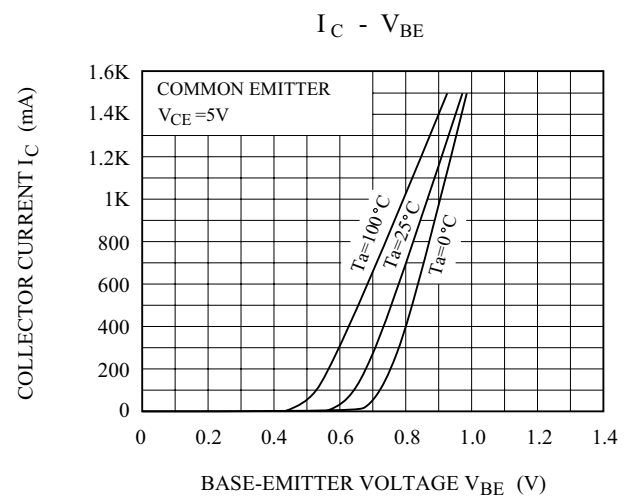
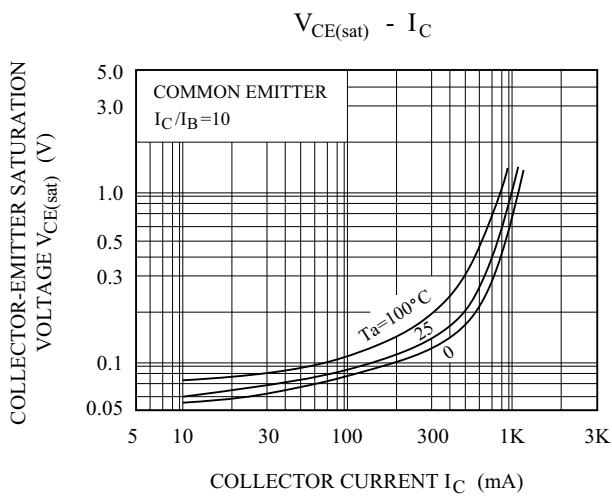
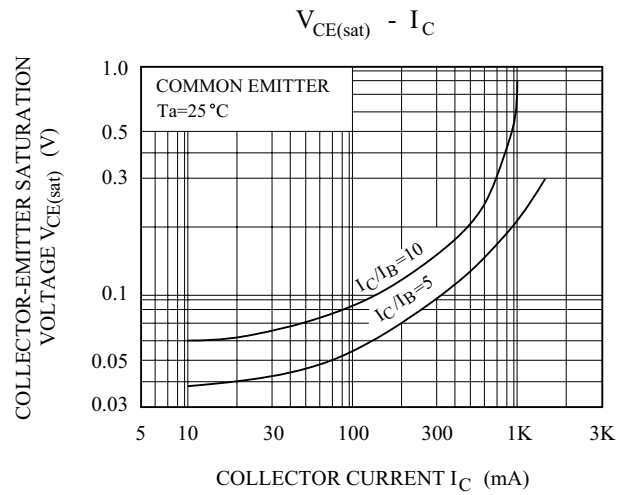
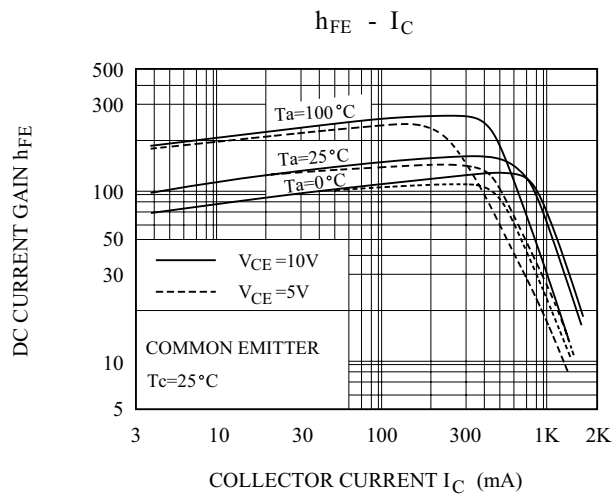
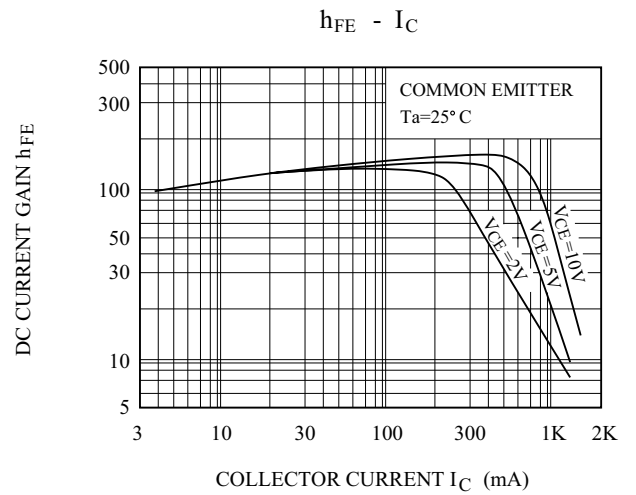
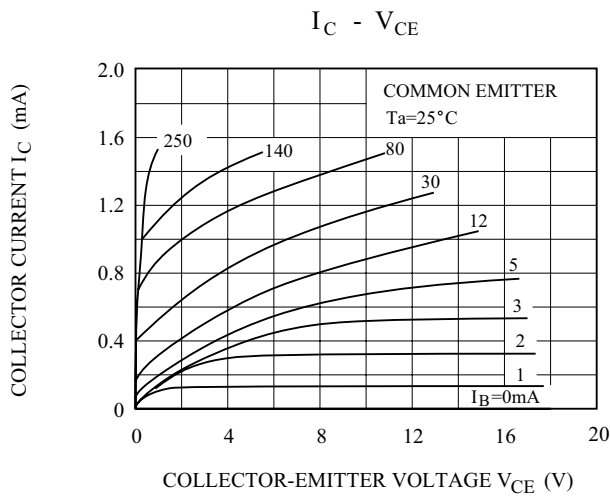


### ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=160\text{V}, I_E=0$	-	-	1.0	$\mu\text{A}$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5\text{V}, I_C=0$	-	-	1.0	$\mu\text{A}$
Collector-Emitter Breakdown Voltage	KTC4370	$V_{(BR)CEO}$ $I_C=10\text{mA}, I_B=0$	160	-	-	V
	KTC4370A		180	-	-	
DC Current Gain	$h_{FE}$ (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

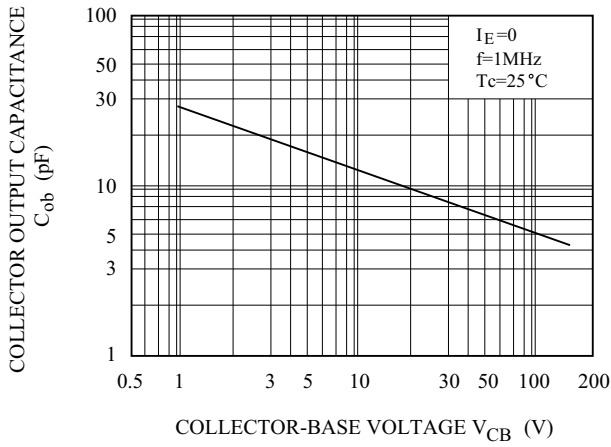
Note :  $h_{FE}$  Classification O:70~140, Y:120~240

# KTC4370/A

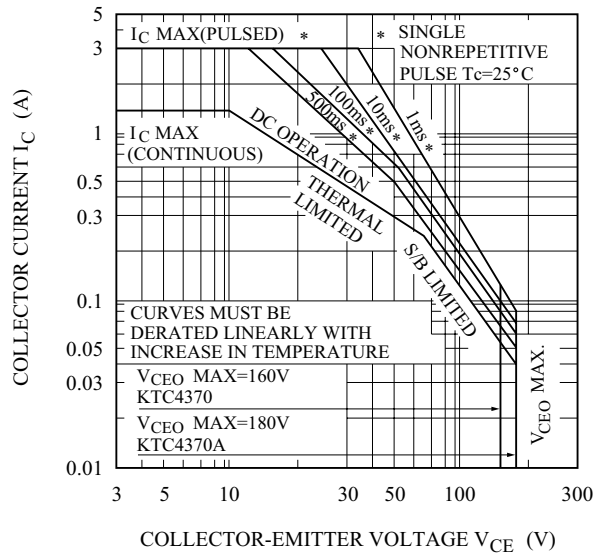


# KTC4370/A

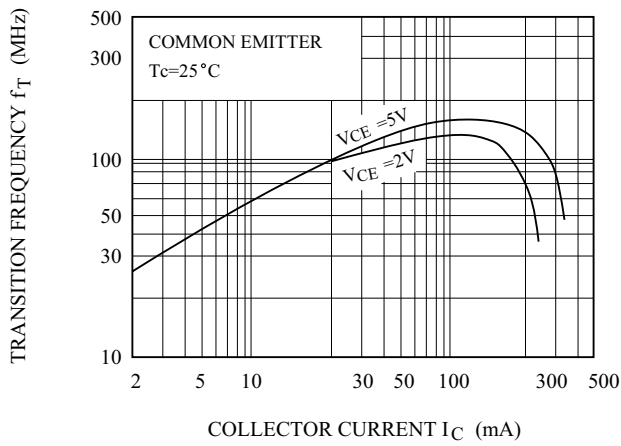
$C_{ob} - V_{CB}$



SAFE OPERATING AREA



$f_T - I_C$



$P_c - T_a$

