

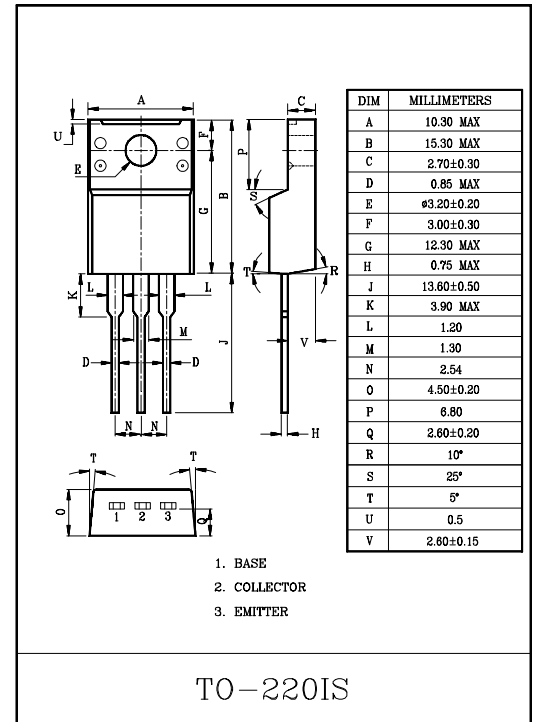
HIGH VOLTAGE APPLICATION.

### FEATURES

- High Transition Frequency :  $f_T=100\text{MHz(Typ.)}$ .
- Complementary to 1659/A.

### MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	KTC4370	$V_{CB0}$	160	V
	KTC4370A		180	
Collector-Emitter Voltage	KTC4370	$V_{CE0}$	160	V
	KTC4370A		180	
Emitter-Base Voltage		$V_{EB0}$	5	V
Collector Current		$I_C$	1.5	A
Base Current		$I_B$	0.15	A
Collector Power Dissipation (Tc=25°C)		$P_C$	20	W
Junction Temperature		$T_j$	150	°C
Storage Temperature Range		$T_{stg}$	-55~150	°C

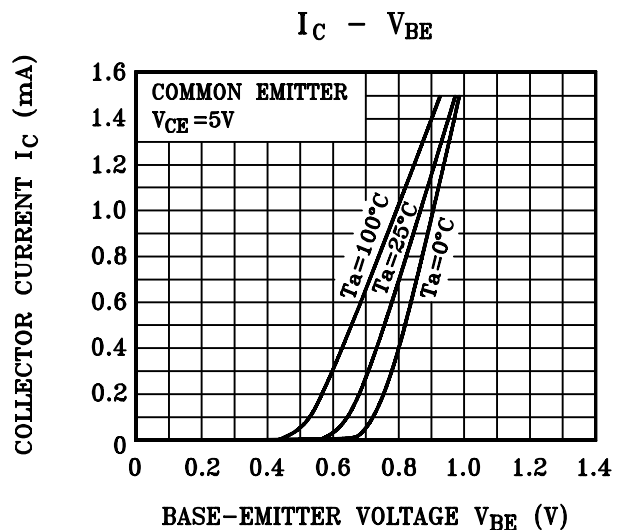
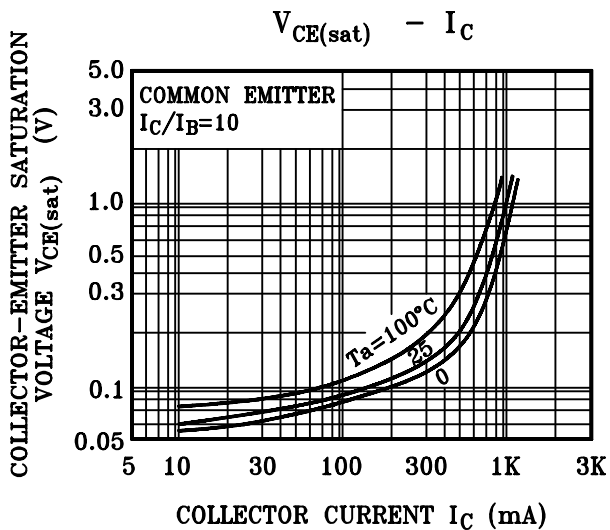
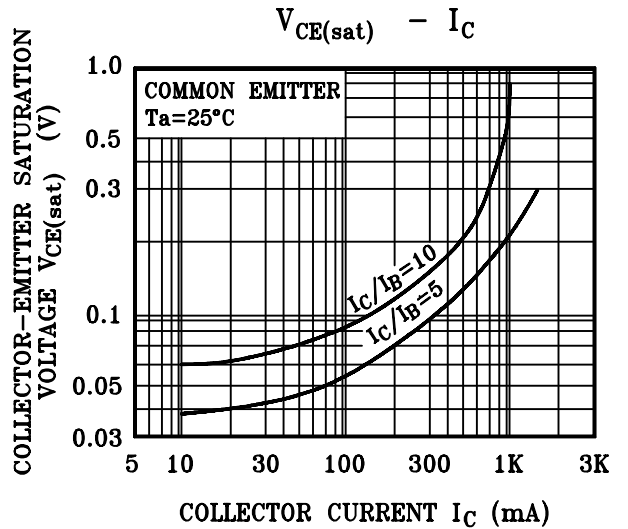
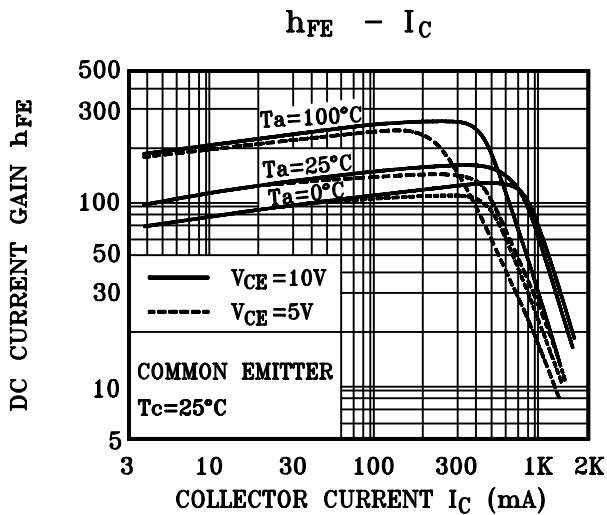
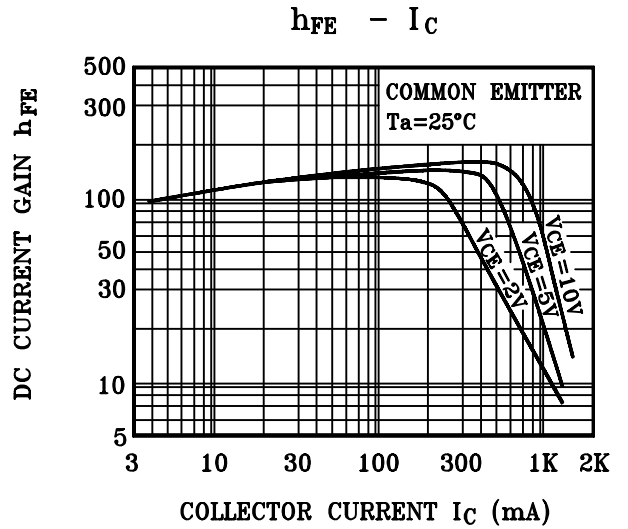
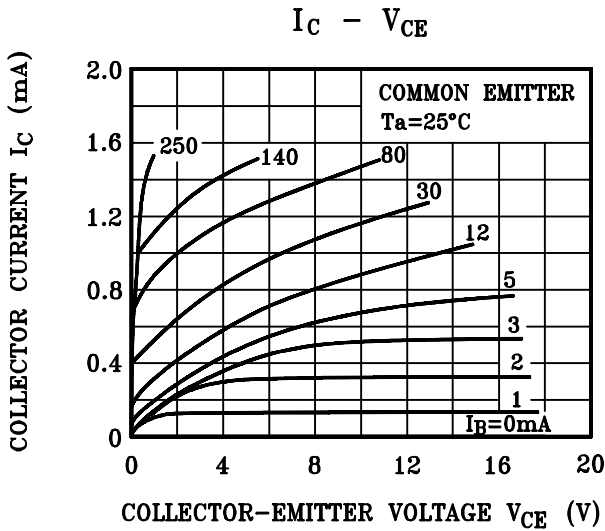


### ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=160V, I_E=0$	-	-	1.0	$\mu A$	
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$	-	-	1.0	$\mu A$	
Collector-Emitter Breakdown Voltage	KTC4370	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	160	-	-	V
	KTC4370A			180	-	-	
DC Current Gain	$h_{FE}(\text{Note})$	$V_{CE}=5V, I_C=100mA$	70	-	240		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$	-	-	1.5	V	
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=5V, I_C=500mA$	-	-	1.0	V	
Transition Frequency	$f_T$	$V_{CE}=10V, I_C=100mA$	-	100	-	MHz	
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	25	-	pF	

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

# KTC4370/A



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