

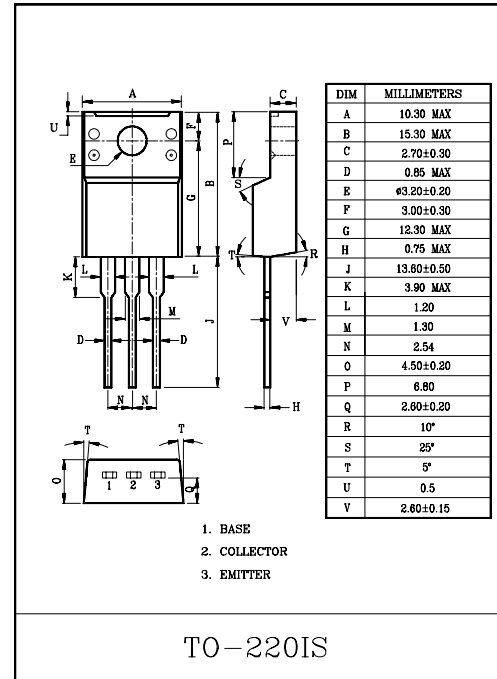
HIGH VOLTAGE APPLICATION.

### FEATURES

- High Transition Frequency :  $f_T=100\text{MHz}(\text{Typ.})$ .
- 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		$I_{CBO}$	$V_{CB}=160\text{V}, I_E=0$	-	-	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		$h_{FE}(\text{Note})$	$V_{CE}=5\text{V}, I_C=100\text{mA}$	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