

### HIGH VOLTAGE SWITCHING APPLICATION.

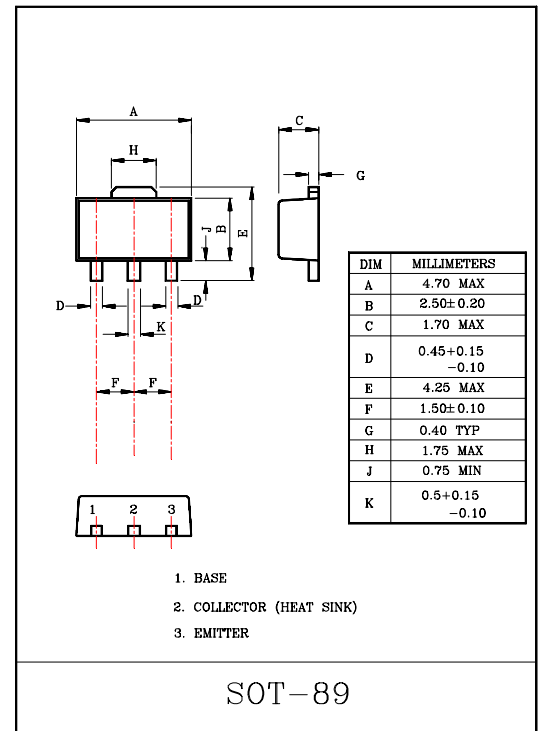
#### FEATURES

- High Voltage :  $V_{CEO}=150V$ .
- High Transition Frequency :  $f_T=120MHz$ .
- 1W (Mounted on Ceramic Substrate).
- Small Flat Package.
- Complementary to KTA1660.

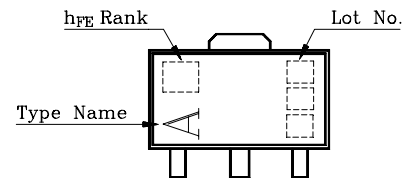
#### MAXIMUM RATINGS ( $T_a=25^\circ C$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	200	V
Collector-Emitter Voltage	$V_{CEO}$	150	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	50	mA
Base Current	$I_B$	10	mA
Collector Power Dissipation	$P_C$	500	mW
	$P_{C^*}$	1	W
Junction Temperature	$T_j$	150	$^\circ C$
Storage Temperature Range	$T_{stg}$	-55 ~ 150	$^\circ C$

$P_{C^*}$  KTC4372 mounted on ceramic substrate (250mm<sup>2</sup>x0.8t)



#### Marking

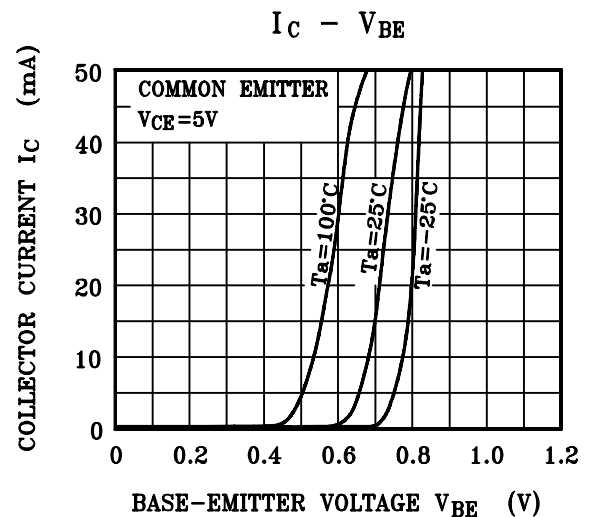
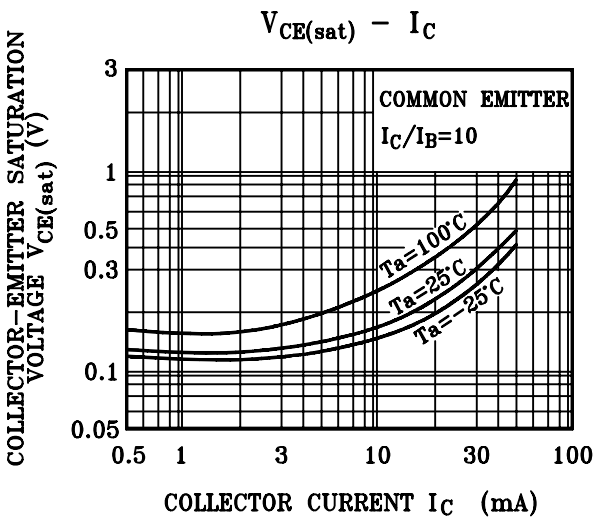
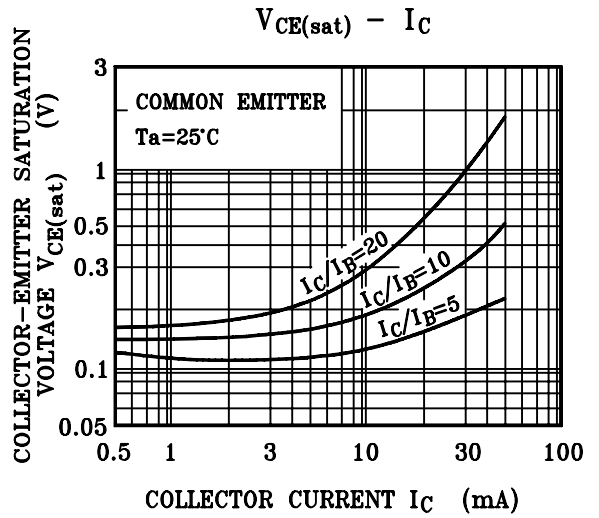
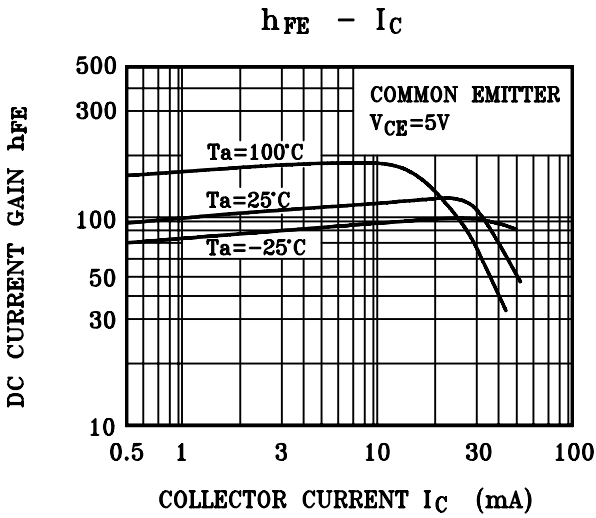
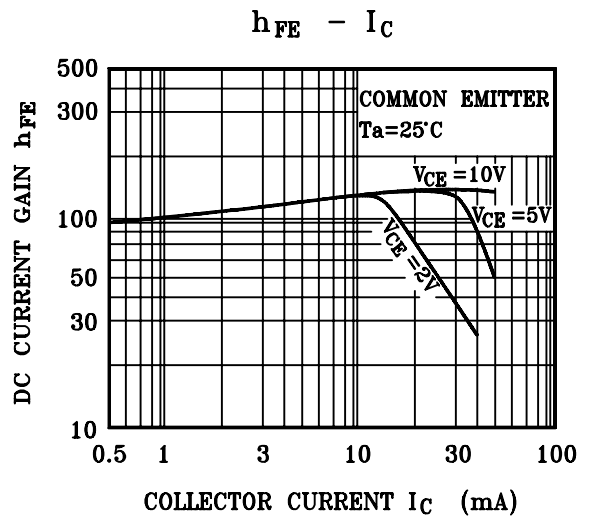
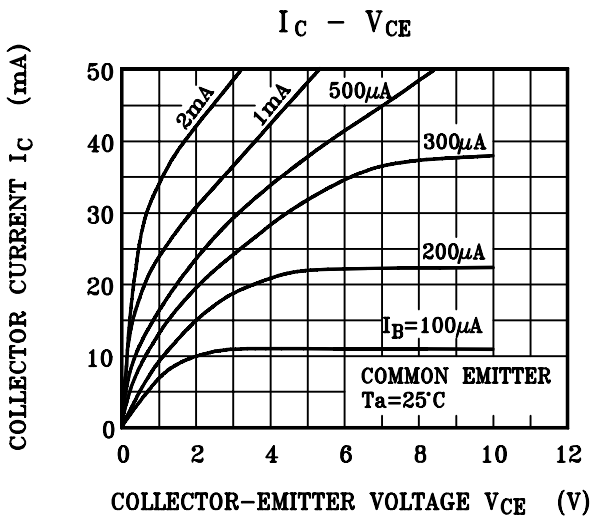


#### ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ C$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=200V, I_B=0$	-	-	0.1	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$	-	-	0.1	$\mu A$
DC Current Gain	$h_{FE}(\text{Note})$	$V_{CE}=5V, I_C=10mA$	70	-	240	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=1mA$	-	-	0.5	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=5V, I_C=30mA$	-	-	1.0	V
Transition Frequency	$f_T$	$V_{CE}=30V, I_C=10mA$	-	120	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_B=0, f=1MHz$	-	3.5	5.0	pF

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

# KTC4372



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