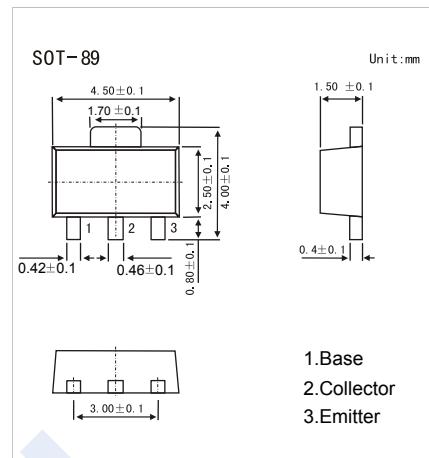


**NPN Transistors****KTC4372****■ Features**

- High Voltage Switching Application
- High Voltage
- High Transition Frequency
- Complementary to KTA1660

**■ Absolute Maximum Ratings Ta = 25°C**

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V <sub>CBO</sub>	200	V
Collector - Emitter Voltage	V <sub>CEO</sub>	150	
Emitter - Base Voltage	V <sub>EBO</sub>	5	
Collector Current - Continuous	I <sub>C</sub>	50	mA
Base Current	I <sub>B</sub>	10	
Collector Power Dissipation	P <sub>C</sub>	500	mW
		1	W
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	-55 to 150	

**■ Electrical Characteristics Ta = 25°C**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V <sub>CBO</sub>	I <sub>C</sub> = 100 μA, I <sub>E</sub> = 0	200			V
Collector- emitter breakdown voltage	V <sub>CEO</sub>	I <sub>C</sub> = 1 mA, I <sub>B</sub> = 0	150			
Emitter - base breakdown voltage	V <sub>EBO</sub>	I <sub>E</sub> = 100 μ A, I <sub>C</sub> = 0	5			
Collector-base cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> = 200 V , I <sub>E</sub> = 0			100	nA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = 5V , I <sub>C</sub> =0			100	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =10 mA, I <sub>B</sub> =1mA			0.5	V
Base - emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =10 mA, I <sub>B</sub> =1mA			1.2	
Base - emitter voltage	V <sub>BE</sub>	V <sub>CE</sub> = 5V, I <sub>C</sub> = 30mA			1	
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = 5V, I <sub>C</sub> = 10mA	70		240	
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 10V, I <sub>E</sub> = 0,f=1MHz			5	pF
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = 30V, I <sub>C</sub> = 10mA		120		MHz

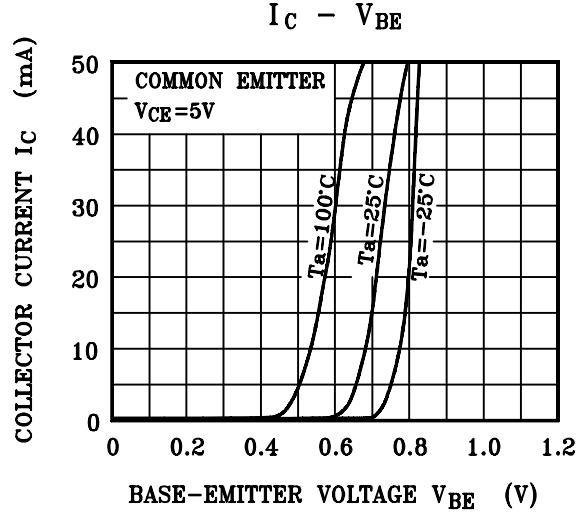
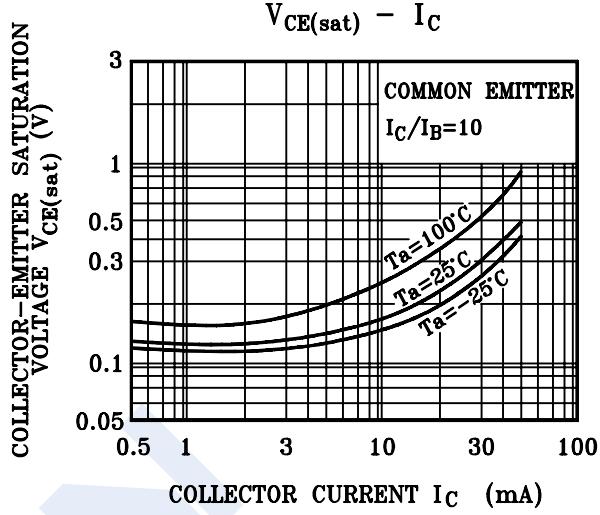
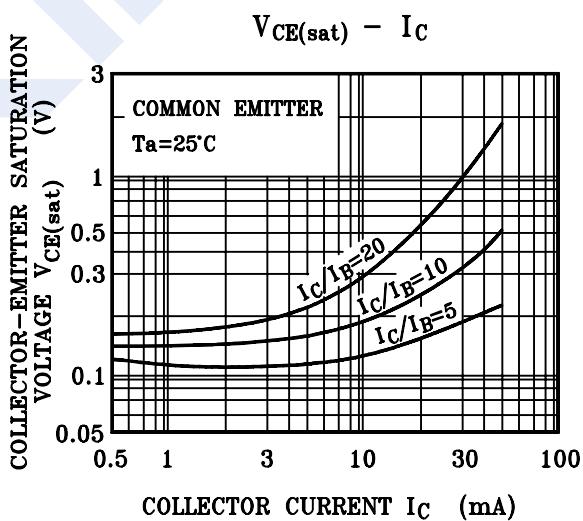
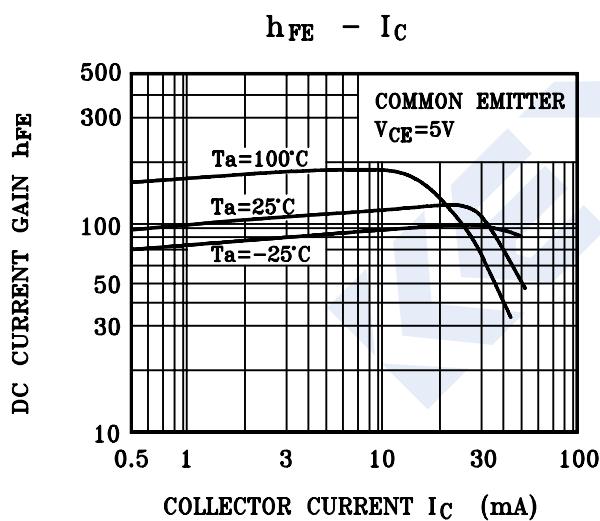
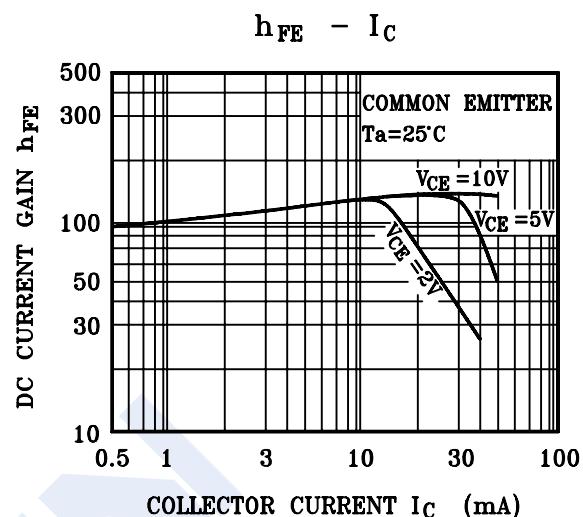
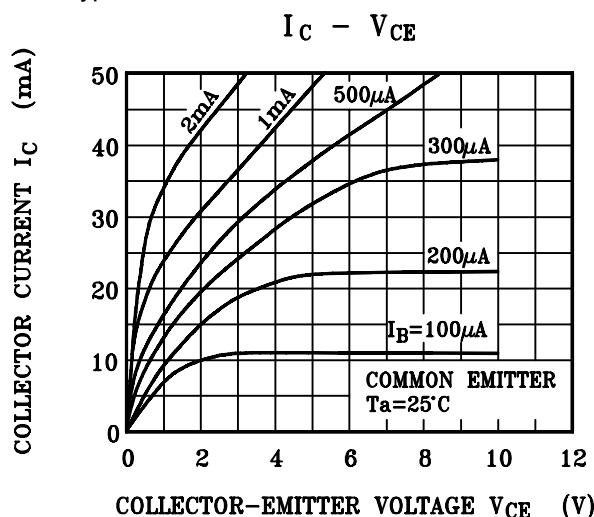
**■ Classification of h<sub>fe</sub>**

Type	KTC4372-O	KTC4372-Y
Range	70-140	120-240
Marking	AO	AY

## NPN Transistors

## KTC4372

## ■ Typical Characteristics



## NPN Transistors

## KTC4372

## ■ Typical Characteristics

