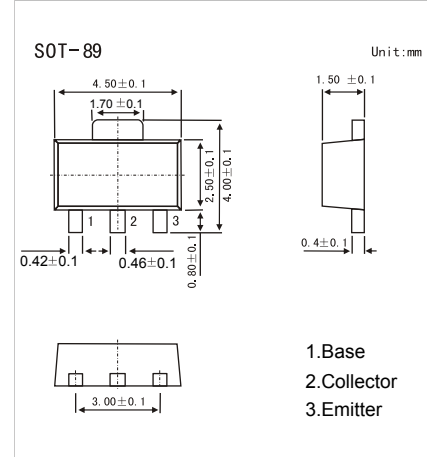


NPN Transistors

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 _{CB0}	200	V
Collector - Emitter Voltage	V _{CE0}	150	
Emitter - Base Voltage	V _{EB0}	5	
Collector Current - Continuous	I _C	50	mA
Base Current	I _B	10	
Collector Power Dissipation	P _C	500	mW
		1	W
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	-55 to 150	

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CB0}	I _C = 100 μA, I _E = 0	200			V
Collector- emitter breakdown voltage	V _{CE0}	I _C = 1 mA, I _B = 0	150			
Emitter - base breakdown voltage	V _{EB0}	I _E = 100 μA, I _C = 0	5			
Collector-base cut-off current	I _{CBO}	V _{CB} = 200 V, I _E = 0			100	nA
Emitter cut-off current	I _{EB0}	V _{EB} = 5V, I _C =0			100	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =10 mA, I _B =1mA			0.5	V
Base - emitter saturation voltage	V _{BE(sat)}	I _C =10 mA, I _B =1mA			1.2	
Base - emitter voltage	V _{BE}	V _{CE} = 5V, I _C = 30mA			1	
DC current gain	h _{FE}	V _{CE} = 5V, I _C = 10mA	70		240	
Collector output capacitance	C _{ob}	V _{CB} = 10V, I _E = 0, f=1MHz			5	pF
Transition frequency	f _T	V _{CE} = 30V, I _C = 10mA		120		MHz

■ Classification of h_{FE}

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

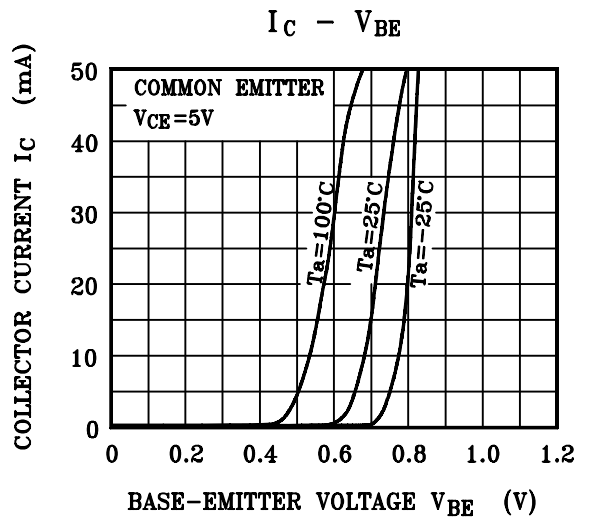
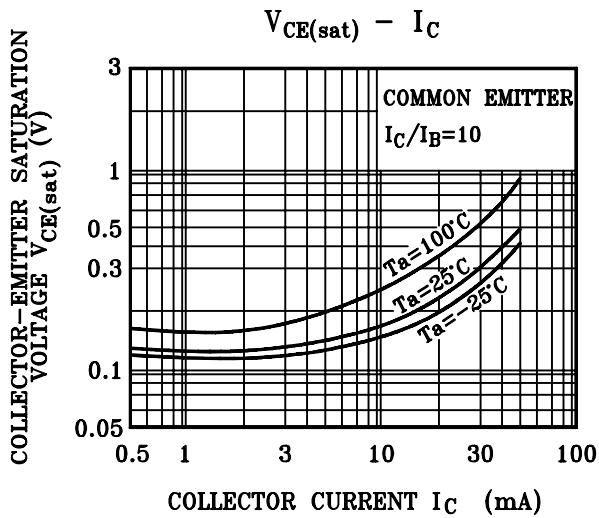
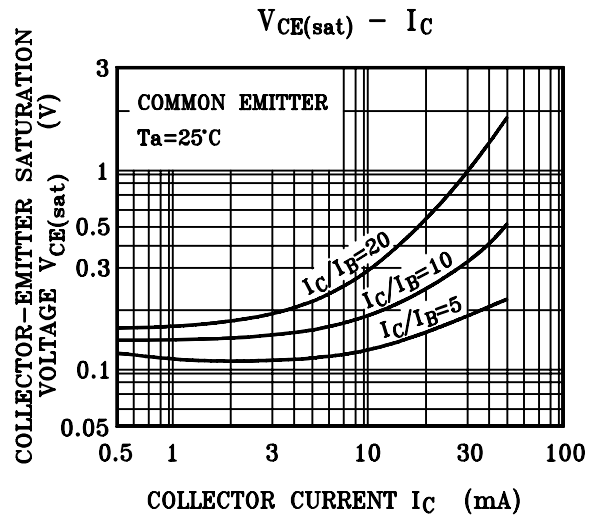
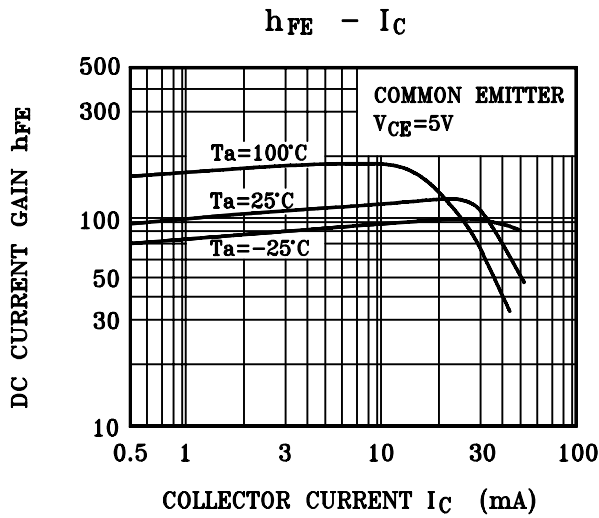
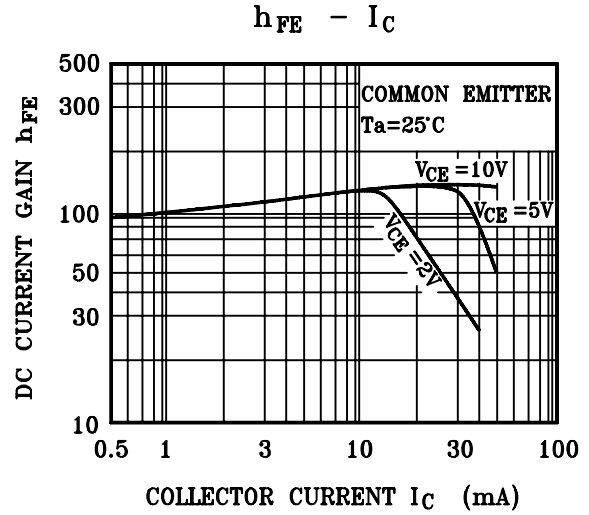
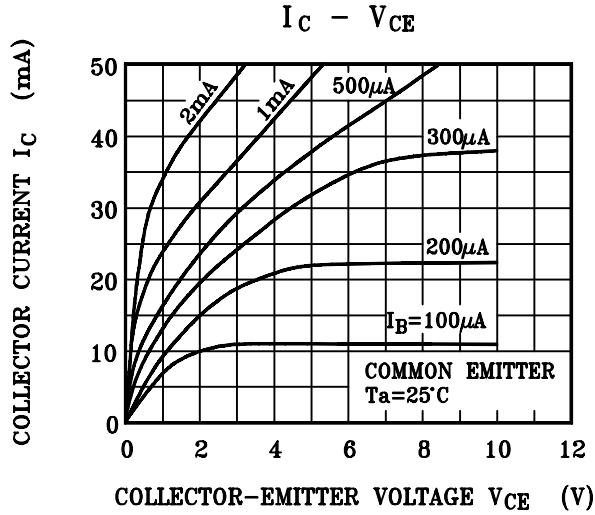


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NPN Transistors

KTC4372

■ Typical Characteristics



NPN Transistors

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■ Typical Characteristics

