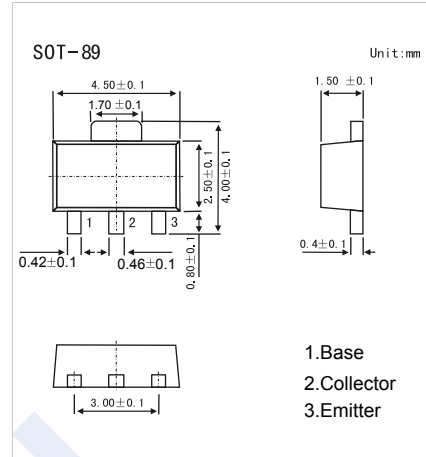


NPN Transistors

KTC4373

■ Features

- High Voltage Switching Application
- High Voltage
- High Transition Frequency
- Complementary to KTA1661



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CB0}	120	V
Collector - Emitter Voltage	V _{CEO}	120	
Emitter - Base Voltage	V _{EBO}	5	
Collector Current - Continuous	I _c	800	mA
Base Current	I _B	160	
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 = 1mA, I _E = 0	120			V
Collector- emitter breakdown voltage	V _{CEO}	I _c = 10 mA, I _B = 0	120			
Emitter - base breakdown voltage	V _{EBO}	I _E = 1mA, I _c = 0	5			
Collector-base cut-off current	I _{cBO}	V _{CB} = 120 V, I _E = 0			100	nA
Emitter cut-off current	I _{EBO}	V _{EB} = 5V, I _c =0			100	
Collector-emitter saturation voltage	V _{CE(sat)}	I _c =500 mA, I _B =50mA			1	V
Base - emitter saturation voltage	V _{BE(sat)}	I _c =500 mA, I _B =50mA			1.2	
Base - emitter voltage	V _{BE}	V _{CE} = 5V, I _c = 500mA			1	
DC current gain	h _{FE}	V _{CE} = 5V, I _c = 100mA	80		240	
Collector output capacitance	C _{ob}	V _{CB} = 10V, I _E = 0, f=1MHz			30	pF
Transition frequency	f _T	V _{CE} = 5V, I _c = 100mA		120		MHz

■ Classification of h_{FE}

Type	KTC4373-O	KTC4373-Y
Range	80-160	120-240
Marking	CO	CY

NPN Transistors

KTC4373

■ Typical Characteristics

