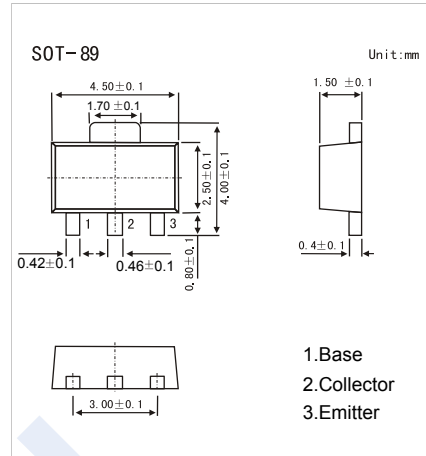


## NPN Transistors

## KTC4376

## ■ Features

- 1W (Mounted on Ceramic Substrate)
- Small Flat Package
- Complementary to KTA1664

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	$V_{CB0}$	35	V
Collector - Emitter Voltage	$V_{CE0}$	30	
Emitter - Base Voltage	$V_{EB0}$	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	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 to 150	

■ Electrical Characteristics  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	$V_{CB0}$	$I_c = 100\mu\text{A}, I_E = 0$	35			V
Collector- emitter breakdown voltage	$V_{CE0}$	$I_c = 10\text{ mA}, I_B = 0$	30			
Emitter - base breakdown voltage	$V_{EB0}$	$I_E = 100\mu\text{A}, I_c = 0$	5			
Collector-base cut-off current	$I_{CB0}$	$V_{CB} = 35\text{V}, I_E = 0$			0.1	$\mu\text{A}$
Emitter cut-off current	$I_{EB0}$	$V_{EB} = 5\text{V}, I_c = 0$			0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c = 500\text{mA}, I_B = 20\text{mA}$			0.5	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_c = 500\text{mA}, I_B = 20\text{mA}$			1.2	
Base - emitter voltage	$V_{BE}$	$V_{CE} = 1\text{V}, I_c = 10\text{mA}$	0.5		0.8	
DC current gain	$h_{FE}$	$V_{CE} = 1\text{V}, I_c = 100\text{mA}$	100		320	
		$V_{CE} = 1\text{V}, I_c = 700\text{mA}$	35			
Collector output capacitance	$C_{ob}$	$V_{CB} = 10\text{V}, I_E = 0, f = 1\text{MHz}$		13		pF
Transition frequency	$f_T$	$V_{CE} = 5\text{V}, I_c = 10\text{mA}$		120		MHz

■ Classification of  $h_{fe}(1)$ 

Type	KTC4376-O	KTC4376-Y
Range	100-200	160-320
Marking	PO	PY

# NPN Transistors

## KTC4376

■ Typical Characteristics

