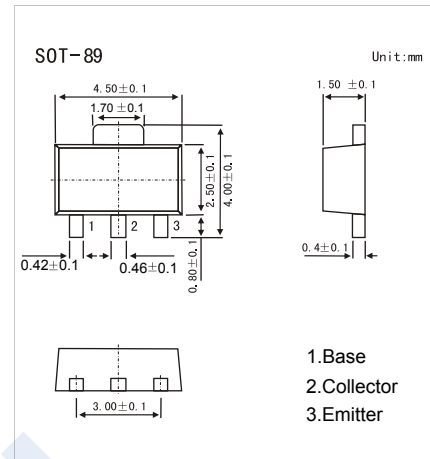


## PNP Transistors

## KTA1666

## ■ Features

- Small Flat Package
- Low Saturation Voltage
- Power Amplifier and Switching Application
- Complementary to KTC4379

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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	$V_{CB0}$	-50	V
Collector - Emitter Voltage	$V_{CE0}$	-50	
Emitter - Base Voltage	$V_{EB0}$	-5	
Collector Current - Continuous	$I_C$	-2	A
Collector Power Dissipation	$P_C$	500	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	250	$^\circ\text{C}/\text{W}$
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	$V_{CB0}$	$I_C = -1 \text{ mA}, I_E = 0$	-50			V
Collector- emitter breakdown voltage	$V_{CE0}$	$I_C = -10 \text{ mA}, I_B = 0$	-50			
Emitter - base breakdown voltage	$V_{EB0}$	$I_E = -1 \text{ mA}, I_C = 0$	-5			
Collector-base cut-off current	$I_{CB0}$	$V_{CB} = -50\text{V}, I_E = 0$			-0.1	uA
Emitter cut-off current	$I_{EB0}$	$V_{EB} = -5\text{V}, I_C = 0$			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -1 \text{ A}, I_B = -20\text{mA}$ (Note.1)			-0.5	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -1 \text{ A}, I_B = -20\text{mA}$ (Note.1)			-1.2	
DC current gain	$h_{FE}$	$V_{CE} = -2\text{V}, I_C = -500\text{mA}$	70		240	
		$V_{CE} = -2\text{V}, I_C = -1.5\text{A}$	40			
Collector output capacitance	$C_{ob}$	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$			40	pF
Transition frequency	$f_T$	$V_{CE} = -2\text{V}, I_C = -500\text{mA}$		120		MHz

Note.1: Pulse test: pulse width  $\leq 300 \text{ uS}$ , duty cycle  $\leq 2.0\%$ .

■ Classification of  $h_{FE}(1)$ 

Type	KTA1666-O	KTA1666-Y
Range	70-140	120-240
Marking	WO	WY

# PNP Transistors

## KTA1666

### Typical Characteristics

