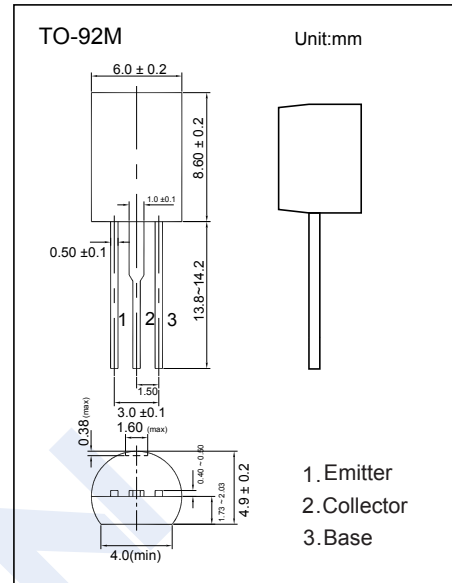


PNP Transistors

KTA1021

■ Features

- Excellent h_{FE} Linearity
- 1 Watt Amplifier Application
- Complementary to KTC1020

■ 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	-500	mA
Base Current	I_B	-100	
Collector Power Dissipation	P_C	400	mW
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}	$I_C = -1 \text{mA}, I_B = 0$	-30			
Emitter - base breakdown voltage	V_{EB0}	$I_E = -100 \mu\text{A}, I_C = 0$	-5			
Collector-base cut-off current	I_{CB0}	$V_{CB} = -35 \text{V}, I_E = 0$			-100	nA
Emitter cut-off current	I_{EB0}	$V_{EB} = -5 \text{V}, I_C = 0$			-100	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100 \text{mA}, I_B = -10 \text{mA}$			-0.25	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -100 \text{mA}, I_B = -10 \text{mA}$			-1.2	
Base - emitter voltage	V_{BE}	$V_{CE} = -1 \text{V}, I_C = -100 \text{mA}$			-1	
DC current gain	h_{FE}	$V_{CE} = -1 \text{V}, I_C = -100 \text{mA}$	100		240	
Collector output capacitance	C_{ob}	$V_{CB} = -6 \text{V}, I_E = 0, f = 1 \text{MHz}$		13		pF
Transition frequency	f_T	$V_{CE} = -6 \text{V}, I_C = -20 \text{mA}$		200		MHz

■ Classification of h_{FE}

Type	KTA1021-O	KTA1021-Y
Range	100-200	120-240

PNP Transistors

KTA1021

■ Typical Characteristics

