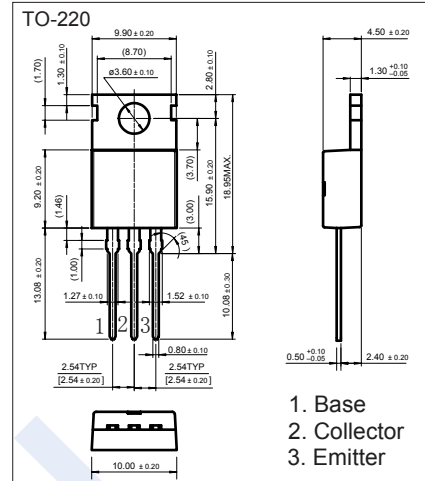


PNP Transistors

KTA968A

■ Features

- High Transition Frequency
- Complementary to KTC2238A



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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-180	V
Collector - Emitter Voltage	V_{CEO}	-180	
Emitter - Base Voltage	V_{EBO}	-5	
Collector Current - Continuous	I_C	-1.5	A
Collector Power Dissipation $T_c = 25^\circ\text{C}$	P_C	25	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_{CBO}	$I_C = -1\text{ mA}, I_E = 0$	-180			V
Collector- emitter breakdown voltage	V_{CEO}	$I_C = -10\text{ mA}, I_B = 0$	-180			
Emitter - base breakdown voltage	V_{EBO}	$I_E = -1\text{ mA}, I_C = 0$	-5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = -160\text{ V}, I_E = 0$			-1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5\text{ V}, I_C = 0$			-1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500\text{ mA}, I_B = -50\text{ mA}$			-1.5	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -500\text{ mA}, I_B = -50\text{ mA}$			-1.2	
Base - emitter voltage	V_{BE}	$V_{CE} = -5\text{ V}, I_C = -500\text{ mA}$			-1	
DC current gain	h_{FE}	$V_{CE} = -5\text{ V}, I_C = -100\text{ mA}$	70		240	
Collector output capacitance	C_{ob}	$V_{CB} = -10\text{ V}, I_E = 0, f = 1\text{ MHz}$		30		pF
Transition frequency	f_T	$V_{CE} = -10\text{ V}, I_C = -100\text{ mA}$		100		MHz

■ Classification of h_{FE}

Type	KTA968A-O	KTA968A-Y
Range	70-140	120-240