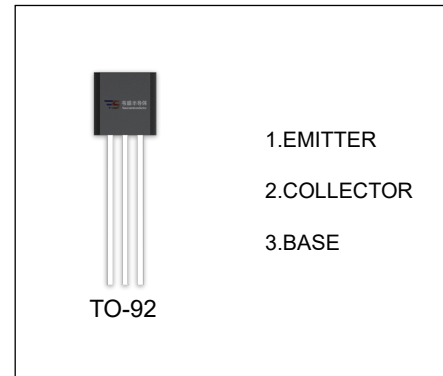


2SA1296 TRANSISTOR (PNP)

FEATURES

- Low Saturation Voltage: $V_{CE(sat)}$
- High DC Current Gain



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SA1296	TO-92	Bulk	1000pcs/Bag
2SA1296-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-20	V
V_{CEO}	Collector-Emitter Voltage	-20	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current -Continuous	-2	A
P_D	Collector Power Dissipation	750	mW
R_{KJA}	Thermal Resistance from Junction to Ambient	166	$^{\circ}\text{C} / \text{W}$
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}\text{C}$

$T_a=25\text{ }^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -0.1\text{mA}, I_E = 0$	-20			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -10\text{mA}, I_B = 0$	-20			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -0.1\text{mA}, I_C = 0$	-6			V
Collector cut-off current	I_{CBO}	$V_{CB} = -20\text{V}, I_E = 0$			-0.1	7A
Emitter cut-off current	I_{EBO}	$V_{EB} = -6\text{V}, I_C = 0$			-0.1	7A
DC current gain	$h_{FE(1)}$	$V_{CE} = -2\text{V}, I_C = -0.1\text{A}$	120		400	
	$h_{FE(2)}$	$V_{CE} = -2\text{V}, I_C = -2\text{A}$	40			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -2\text{A}, I_B = -0.1\text{A}$			-0.5	V
Base-emitter voltage	V_{BE}	$V_{CE} = -2\text{V}, I_C = -0.1\text{A}$			-0.85	V
Collector output capacitance	C_{ob}	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$		40		pF
Transition frequency	f_T	$V_{CE} = -2\text{V}, I_C = -0.5\text{A}$		120		MHz

CLASSIFICATION OF $h_{FE(1)}$

RANK	Y	GR
RANGE	120-240	200-400