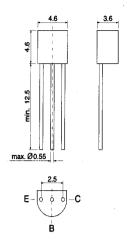
PNP Silicon Expitaxial Planar Transistor

for switching and AF amplifier applications.

The transistor is subdivided into four groups, A, B, C, and D, according to its DC current gain. As complementary type the NPN transistor HN 9014 is recommended.

On special request, these transistors can be manufactured in different pin configurations. Please refer to the "TO-92 TRANSISTOR PACKAGE OUTLINE" on page 80 for the available pin options.



TO-92 Plastic Package Weight approx. 0.18 g Dimensions in mm

Absolute Maximum Ratings

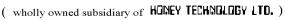
	Symbol	Value	Unit	
Collector Base Völtage	-V _{CBO}	30	V	
Collector Emitter Voltage	-V _{CES}	30	V	
Collector Emitter Voltage	-V _{CEO}	30	V	
Emitter Base Voltage	-V _{EBO}	5	V	
Collector Current	-lc	100	mA	
Peak Collector Current	-I _{CM}	200	mA	
Peak Base Current	-I _{BM}	200	mA	
Peak Emitter Current	I _{EM}	200	mA	
Power Dissipation at T _{amb} = 25 ℃	P _{tot}	500 ¹⁾	mW	
Junction Temperature	Tj	150	°C	
Storage Temperature Range	T _S	-65 to +150	℃	

¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 2 mm from case

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Characteristics at T_{amb} = 25 °C

	Symbol	Min.	Тур.	Max.	Unit
DC Current Gain at -V _{CE} = 5 V, -I _C = 1 mA Current Gain Group A B C D	h _{FE} h _{FE} h _{FE}	60 100 200 400		150 300 600 1000	
Collector Saturation Voltage at $-I_C = 10$ mA, $-I_B = 0.5$ mA at $-I_C = 100$ mA, $-I_B = 5$ mA	-V _{CEsat} -V _{CEsat}	-	80 250	300 650	mV mV
Base Saturation Voltage at $-I_C = 10$ mA, $-I_B = 0.5$ mA at $-I_C = 100$ mA, $-I_B = 5$ mA	-V _{BEsat} -V _{BEsat}	-	700 900	-	mV mV
Base Emitter Voltage at $-V_{CE} = 5 \text{ V}$, $-I_{C} = 2 \text{ mA}$ at $-V_{CE} = 5 \text{ V}$, $-I_{C} = 10 \text{ mA}$	-V _{BE}	600	660	750 800	mV mV
Collector Cutoff Current at $-V_{CE} = 30 \text{ V}$ at $-V_{CE} = 30 \text{ V}$, $T_j = 125 \text{ C}$ at $-V_{CB} = 30 \text{ V}$, $T_j = 150 \text{ C}$	-lces -lces -lcbo -lcbo		0.2 - -	15 4 15 5	nA μA nA μA
Gain Bandwidth Product at $-V_{CE} = 5 \text{ V}$, $-I_{C} = 10 \text{ mA}$, $f = 100 \text{ MHz}$	f _T	-	150	-	MHz
Collector Base Capacitance at -V _{CB} = 10 V, f = 1 MHz	ССВО	-	-	6	pF
Noise Figure at -V _{CE} = 5 V, -I _C = 200 μ A, R _G = 2 k Ω f = 1 kHz, Δ f = 200 Hz	F	-	2	10	dB
Thermal Resistance Junction to Ambient	R _{thA}	-	-	250 ¹⁾	K/W
1) Valid provided that leads are kept at ambient	temperature at	a distance o	f 2 mm from	case	

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