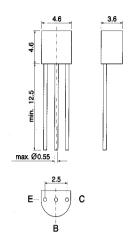
NPN Silicon Expitaxial Planar Transistor

for switching and amplifier applications. Especially suitable for AF-driver stages and low power output stages.

The transistor is subdivided into two groups, G and H, according to its DC current gain. As complementary type the PNP transistor HN 9012 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 Emitter Voltage	V _{CEO}	30	V	
Emitter Base Voltage	V _{EBO}	5	V	
Collector Current	Ic	800	mA	
Peak Collector Current	Ісм	1	А	
Base Current	IB	100	mA	
Power Dissipation at T _{amb} = 25 ℃	P _{tot}	625 ¹⁾	mW	
Junction Temperature	Tj	150	°C	
Storage Temperature Range	T _S	-55 to +150	°C	
1) Valid provided that leads are kept at ambier	nt temperature at a distanc	e of 2 mm from case	9	

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Characteristics at T_{amb} = 25 °C

	Symbol	Min.	Тур.	Max.	Unit
DC Current Gain at $V_{CE} = 1$ V, $I_C = 50$ mA Current Gain Group G at $V_{CE} = 1$ V, $I_C = 500$ mA	h _{FE}	110 177 40	- - -	183 250	- - -
Collector Cutoff Current at V _{CB} = 31 V	Ісво	-	-	100	nA
Collector Emitter Breakdown Voltage at I _C = 1 mA	V _{(BR)CEO}	30	-	-	V
Emitter Base Cutoff Current at V _{EB} = 5.1 V	I _{EBO}	-	-	100	nA
Collector Saturation Voltage at I _C = 500 mA, I _B = 20 mA	V _{CEsat}	-	-	0.5	V
Base Saturation Voltage at $I_C = 500$ mA, $I_B = 20$ mA	V _{BEsat}	-	-	1.2	V
Base Emitter Voltage at $V_{CE} = 1 \text{ V}$, $I_C = 50 \text{ mA}$	V _{BE}	0.6	-	0.75	V
Gain Bandwidth Product at $V_{CE} = 5 \text{ V}$, $I_{C} = 10 \text{ mA}$, $f = 50 \text{ MHz}$	f⊤	-	100	-	MHz
Collector Base Capacitance at V _{CB} = 10 V, f = 1 MHz	С _{СВО}	-	12	-	pF
Thermal Resistance Junction to Ambient	R _{thA}	-	-	2001)	K/W

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