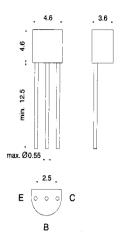
NPN Silicon Expitaxial Planar Transistor

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

The transistor is subdivided into two groups, C and D, according to its DC current gain. As complementary type the PNP transistor HN 8550 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	VCEO	25	V	
Collector Base Voltage	V _{CBO}	40	V	
Emitter Base Voltage	. V _{EBO}	6	V	
Collector Current	Ic	800	mA	
Peak Collector Current	IcM	1	А	
Base Current	I _B	100	mA	
Power Dissipation at T _{amb} = 25 °C	P _{tot}	625 ¹⁾	mW	
Junction Temperature	Tj	150	°C	
Storage Temperature Range	T _S	-55 to +150	°C	

G S P FORM A AVAILABLE





Characteristics at T_{amb} = 25 °C

	Symbol	Min.	Тур.	Max.	Unit
DC Current Gain at V _{CE} = 1 V, I _C = 100 mA HN 8050C HN 8050D	h _{FE}	120 160	-	200 300	-
at $V_{CE} = 1 \text{ V, } I_{C} = 350 \text{ mA}$	h _{FE}	60	-	-	_
Collector Cutoff Current at V _{CB} = 35 V	Ісво	-	-	100	nA
Collector Saturation Voltage at I _C = 500 mA, I _B = 50 mA	V _{CEsat}	-	-	0.5	V
Base Saturation Voltage at I _C = 500 mA, I _B = 50 mA	V _{BEsat}	-	-	1.2	V
Collector Emitter Breakdown Voltage at I _C = 2 mA	V _{(BR)CEO}	25	-	-	V
Collector Base Breakdown Voltage at $I_C = 10 \mu A$	V _{(BR)CBO}	40	-	-	V
Emitter Base Breakdown Voltage at $I_E = 100 \mu A$	V _{(BR)EBO}	6	-	-	V
Gain Bandwidth Product at $V_{CE} = 5 \text{ V}$, $I_C = 10 \text{ mA}$, $f = 50 \text{ MHz}$	f _T	-	100	-	MHz
Collector Base Capacitance at V _{CB} = 10 V, f = 1 MHz	Ссво	-	12	-	pF
Thermal Resistance Junction to Ambient	R _{thA}	_	-	2001)	K/W

G S P FORM A AVAILABLE





