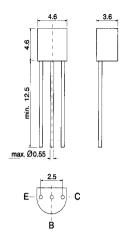
HN / 2N 4402/4403 PNP EPITAXIAL SILICON TRANSISTOR

General purpose transistor

Collector Emitter Voltage: $V_{CEO} = 40V$ Collector Dissipation: $P_{C}(max) = 625mW$

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 (T_a = 25°C)

Characteristic	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	-40	V
Collector-Emitter Voltage	V _{CEO}	-40	V
Emitter-Base Voltage	V _{EBO} ·	-5	V
Collector Current	l _c	-600	mA
Collector Dissipation	P _{tot} 625		mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _s	-55 to + 150	°C

G S P FORM A AVAILABLE





HN / 2N 4402/4403 PNP EPITAXIAL SILICON TRANSISTOR

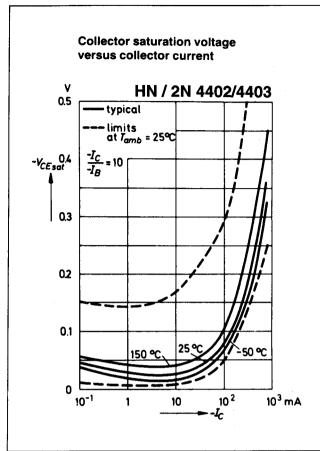
Characteristics at T_{amb} =25 °C

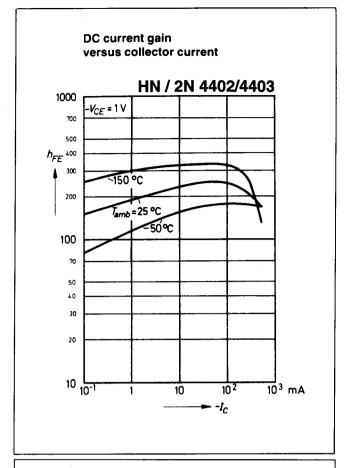
		Symbol	Min.	Тур.	Max.	Unit
DC Current Gain.						
at $-V_{CE} = 1V$, $-I_{C} = 0.1 \text{ mA}$	HN / 2N 4403	h	30	_		_
at - $V_{CE} = 1V$, - $I_{C} = 1 \text{ mA}$	HN / ZN 4403	h _{FE}	30			_
GE , C	HN / 2N 4402	h _{FE}	30	-		-
at -V _{CE} = 1V, -I _C = 10 mA	HN / 2N 4403	h _{FE}	60	-		-
at v _{CE} = Tv, v _C = To mA	HN / 2N 4402	h _{FE}	50	-		-
	HN / 2N 4403	h _{FE}	100	-	j	-
at $-V_{CE} = 1V$, $-I_{C} = 150 \text{ mA}$	HN / 2N 4402	h _{FE}	50	_	150	_
	HN / 2N 4403	h _{FE}	100		300	-
at $-V_{CE} = 2V$, $-I_{C} = 500$ mA	HN / 2N 4402		20	_		_
	HN / 2N 4403	h _{FE} h _{FE}	20	-		-
Collector Cutoff Current	·					
at $-V_{CE} = 35 \text{ V}$, at $-V_{ER} = 0.4 \text{ V}$		-I _{CEX}	-	-	100	n A
Base Cutoff Current		CEX				
at $-V_{CE} = 35 \text{ V}$, at $-V_{EB} = 0.4 \text{ V}$		-I _{BEV}	_	_	100	n A
Collector Emitter Breakdown Volta	200	BEV BEV				
at $-I_c = 1 \text{ mA}$	iy o	-V _{(BR)CEO}	40	_	_	V
Collector Base Breakdown Voltage	•	(BH)CEO				
at $-I_c = 100 \mu A$	5	-V _{(BR)CBO}	40	_	-	V
Collector Saturation Voltage		(BH)CBO		<u> </u>		
at $-I_c = 150 \text{ mA}$, $-I_B = 15 \text{ mA}$		-V _{CEsat}	-	_	0.4	V
Base Saturation Voltage		CESAT				
at $-I_c = 150 \text{ mA}$, $-I_B = 15 \text{ mA}$		-V _{BEsat}	0.75	_	0.95	V
Emitter Base Breakdown Voltage		BEsat				
at -I _E = 100 µA		-V _{BR(EBO)}	5	_	_	v
		BR(EBO)	-			
Gain Bandwidth Product at $-V_{CE} = 10V$, $-I_C = 20$ mA, $f = 100$	MHz					
CE - 101, 10 - 101	HN / 2N 4402		150	<u>-</u>	ļ. -	MHz
	HN / 2N 4403	f _r	200	-	-	MHz
Collector Base Capacitance		_				
at $-V_{CB} = 10 \text{ V}$, $f = 140 \text{MHz}$, $-I_E = 0$		C _(CBO)	-	-	8.5	pF
Turn On Time						
at $-V_{CC} = 30 \text{ V}$, $-V_{BE} = 2V$, $-I_{C} = 150$	$mA, -I_B 1 = 15 mA$	t _{on}	-	-	35	ns
Turn Off Time						
at $-V_{CC} = 30 \text{ V}$, $-I_{C} = 150 \text{ mA}$, $-I_{B}1 =$	= -I _B 2 = 15mA	t _{off}	-	-	255	ns
1) Valid provided that leads are ker	ot at ambient tempera	ature at a dista	nce of 2 mm 1	rom case.	-	

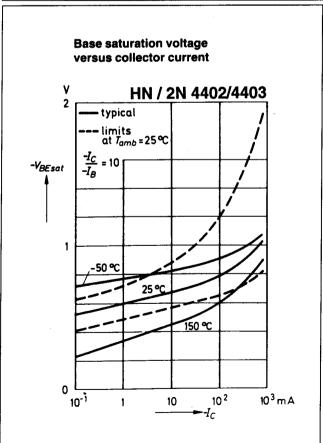
G S P FORM A AVAILABLE

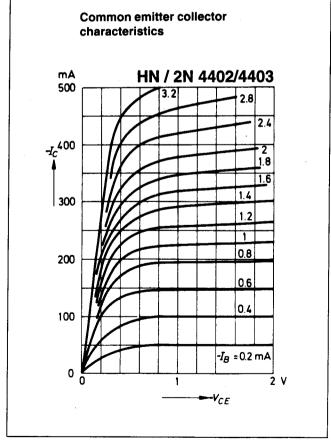
















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