

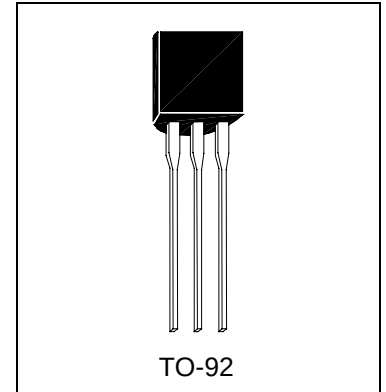


H2N3906

PNP EPITAXIAL PLANAR TRANSISTOR

Description

The H2N3906 is designed for general purpose switching and amplifier applications.



Absolute Maximum Ratings

- Maximum Temperatures
Storage Temperature -55 ~ +150 °C
Junction Temperature..... +150 °C Maximum
- Maximum Power Dissipation
Total Power Dissipation (Ta=25°C) 625 mW
- Maximum Voltages and Currents (Ta=25°C)
VCBO Collector to Base Voltage -40 V
VCEO Collector to Emitter Voltage..... -40 V
VEBO Emitter to Base Voltage -5 V
IC Collector Current -200 mA

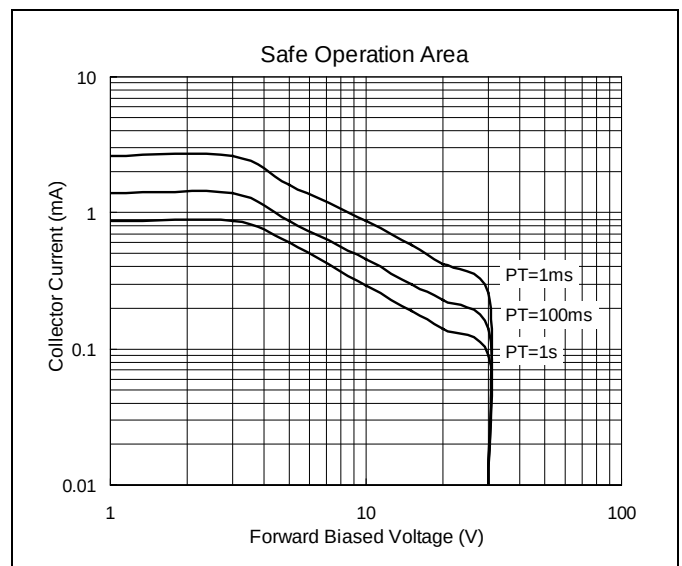
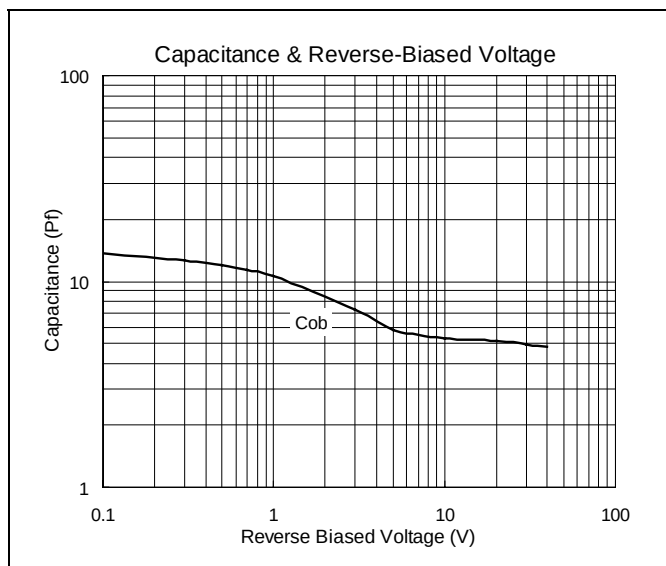
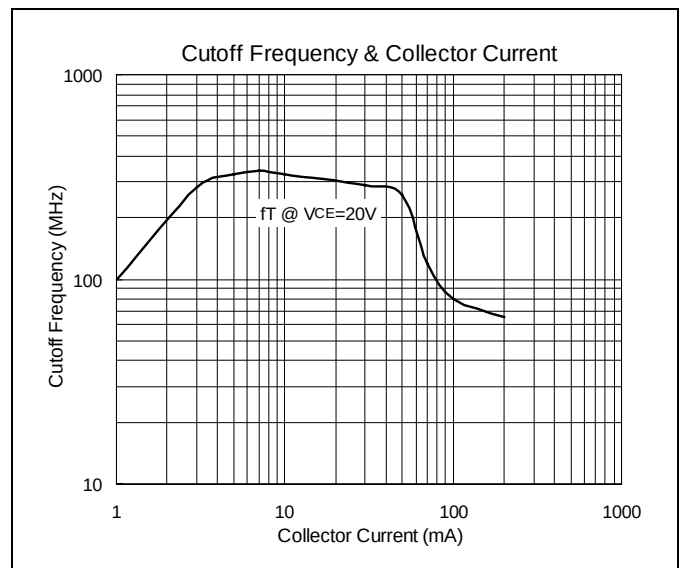
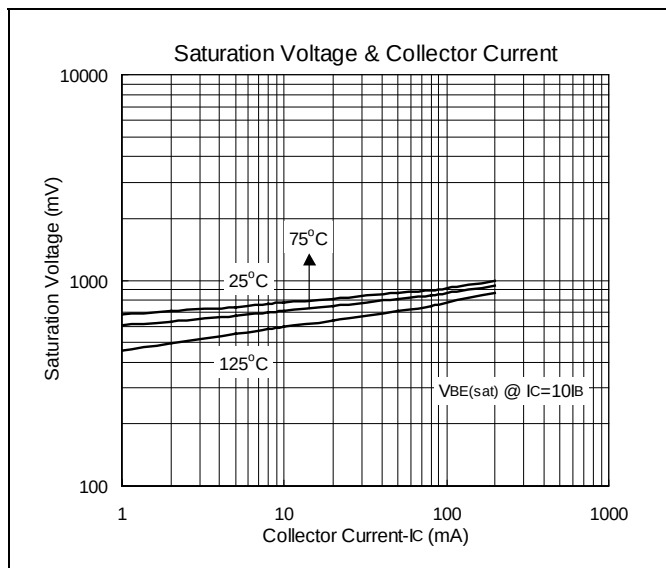
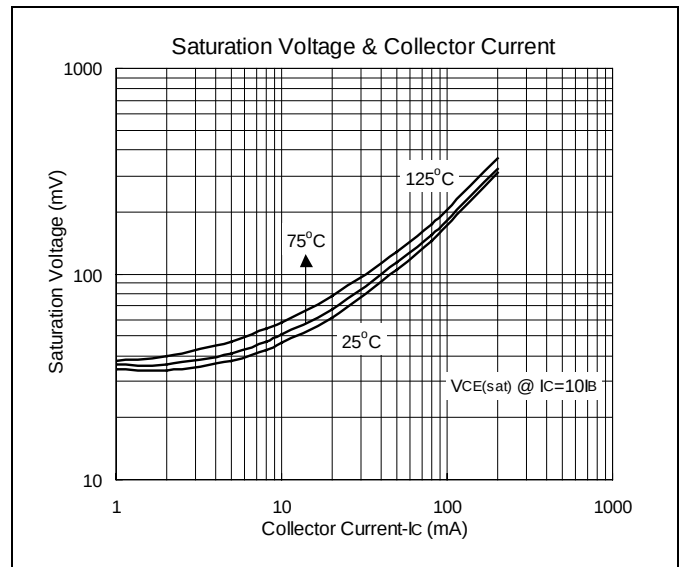
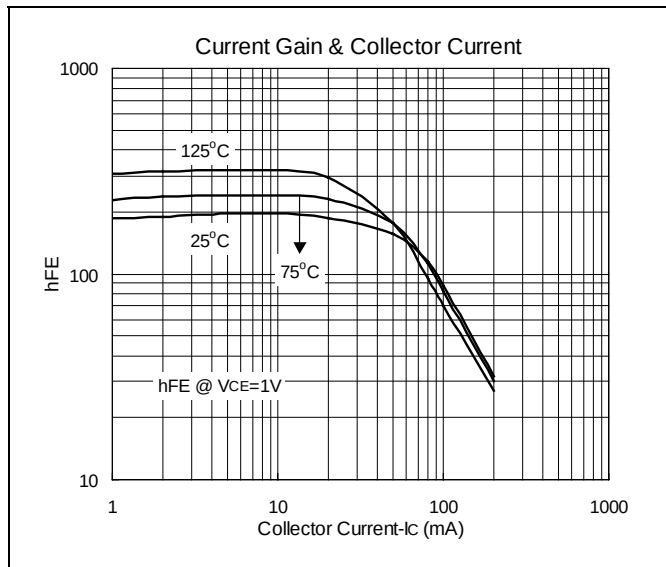
Characteristics (Ta=25°C)

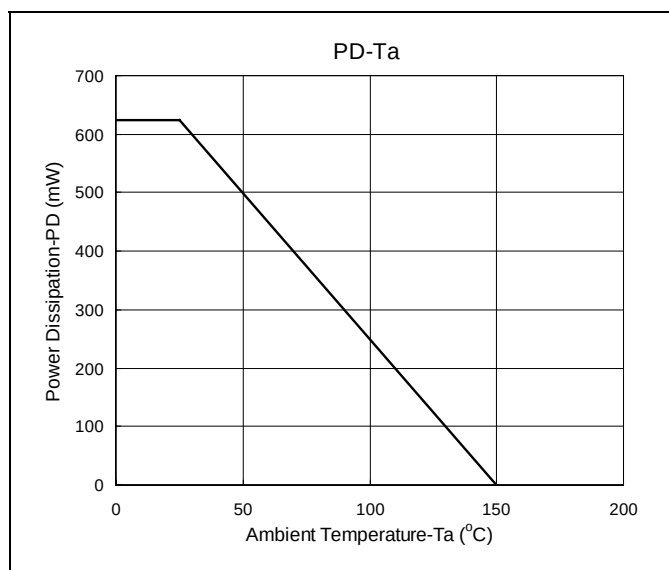
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-40	-	-	V	IC=-100uA, IE=0
BVCEO	-40	-	-	V	IC=-1mA, IB=0
BVEBO	-5	-	-	V	IE=-10uA, IC=0
ICEX	-	-	-50	nA	VCE=-30V, VBE=-3V
*VCE(sat)1	-	-	-250	mV	IB=-1mA, IC=-10mA
*VCE(sat)2	-	-	-400	mV	IB=-5mA, IC=-50mA
*VBE(sat)1	-650	-	-850	mV	IB=-1mA, IC=-10mA
*VBE(sat)2	-	-	-950	mV	IB=-5mA, IC=-50mA
*hFE1	60	-	-		VCE=-1V, IC=-100uA
*hFE2	80	-	-		VCE=-1V, IC=-1mA
*hFE3	100	-	300		VCE=-1V, IC=-10mA
*hFE4	60	-	-		VCE=-1V, IC=-50mA
*hFE5	30	-	-		VCE=-1V, IC=-100mA
fT	250	-	-	MHz	VCE=-20V, IC=-10mA,, f=100MHz
Cob	-	-	4	pF	VCB=-5V, IE=0, f=1MHz

*Pulse Test: Pulse Width ≤380us, Duty Cycle≤2%



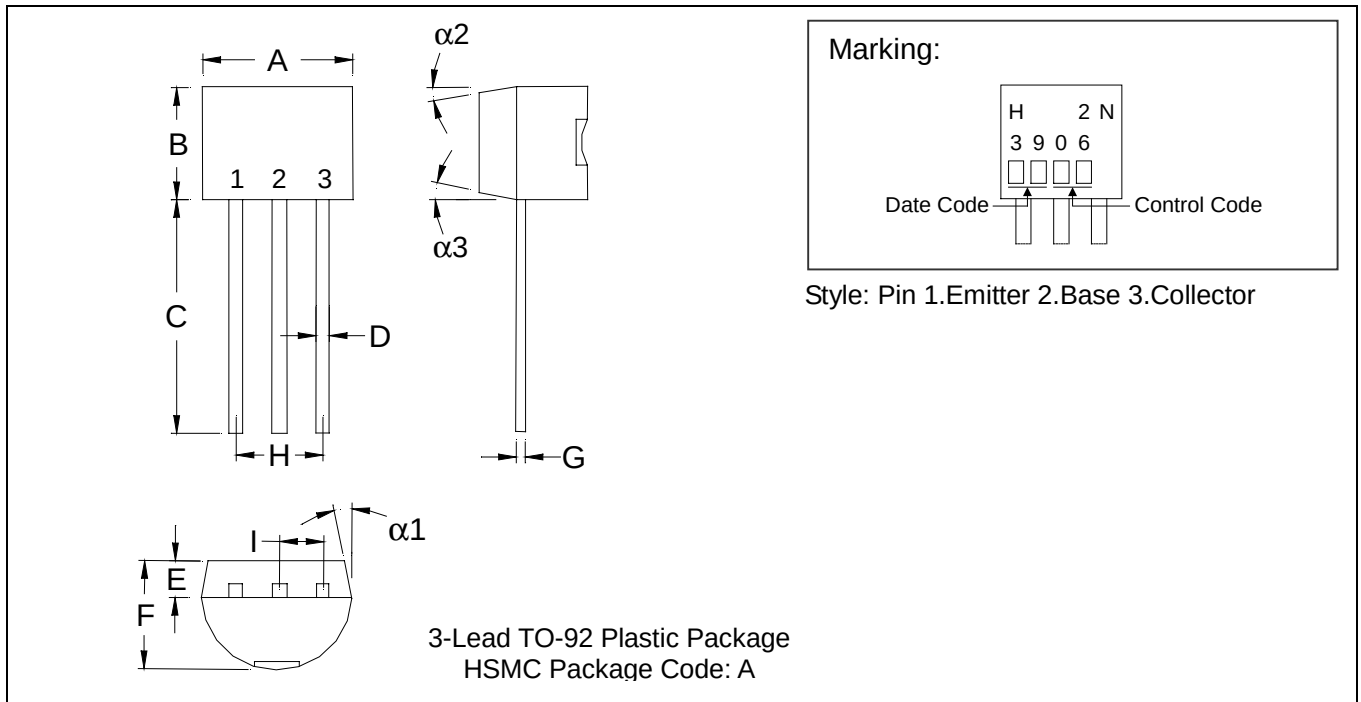
Characteristics Curve







TO-92 Dimension



*: Typical

DIM	Inches		Millimeters		DIM	Inches		Millimeters	
	Min.	Max.	Min.	Max.		Min.	Max.	Min.	Max.
A	0.1704	0.1902	4.33	4.83	G	0.0142	0.0220	0.36	0.56
B	0.1704	0.1902	4.33	4.83	H	-	*0.1000	-	*2.54
C	0.5000	-	12.70	-	I	-	*0.0500	-	*1.27
D	0.0142	0.0220	0.36	0.56	$\alpha 1$	-	*5°	-	*5°
E	-	*0.0500	-	*1.27	$\alpha 2$	-	*2°	-	*2°
F	0.1323	0.1480	3.36	3.76	$\alpha 3$	-	*2°	-	*2°

Notes: 1.Dimension and tolerance based on our Spec. dated Apr. 25,1996.
2.Controlling dimension: millimeters.
3.Maximum lead thickness includes lead finish thickness, and minimum lead thickness is the minimum thickness of base material.
4.If there is any question with packing specification or packing method, please contact your local HSMC sales office.

Material:

- Lead: 42 Alloy; solder plating
- Mold Compound: Epoxy resin family, flammability solid burning class: UL94V-0

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