



H2N4124

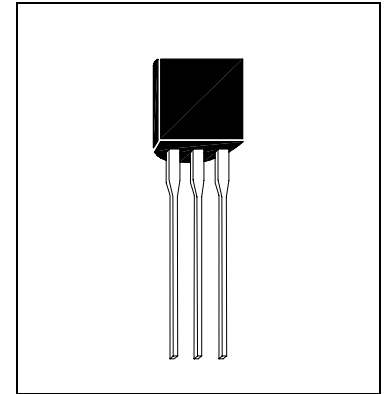
NPN EPITAXIAL PLANAR TRANSISTOR

Description

The H2N4124 is designed for general purpose switching and amplifier applications.

Features

- Complementary to H2N4126
- Low Collector to Emitter Saturation Voltage



Absolute Maximum Ratings

- Maximum Temperatures
 Storage Temperature..... -55 ~ +150 °C
 Junction Temperature..... +150 °C Maximum
- Maximum Power Dissipation
 Total Power Dissipation (Ta=25°C) 350 mW
- Maximum Voltages and Currents (Ta=25°C)
 VCBO Collector to Base Voltage 30 V
 VCEO Collector to Emitter Voltage 25 V
 VEBO Emitter to Base Voltage 5 V
 IC Collector Current 200 mA

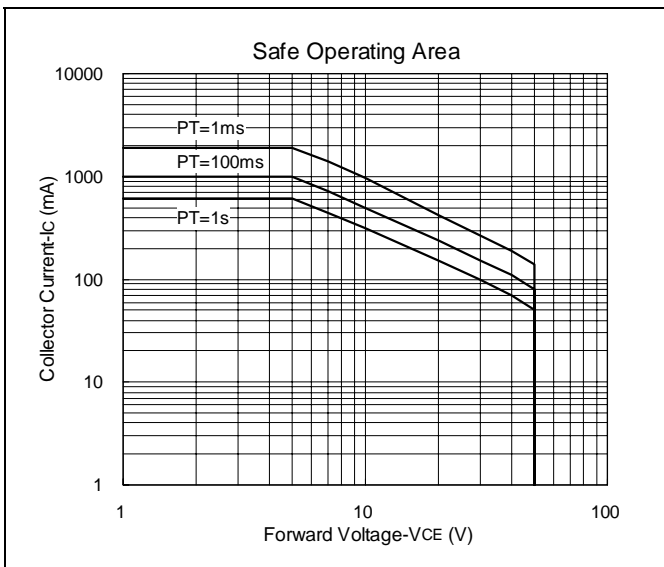
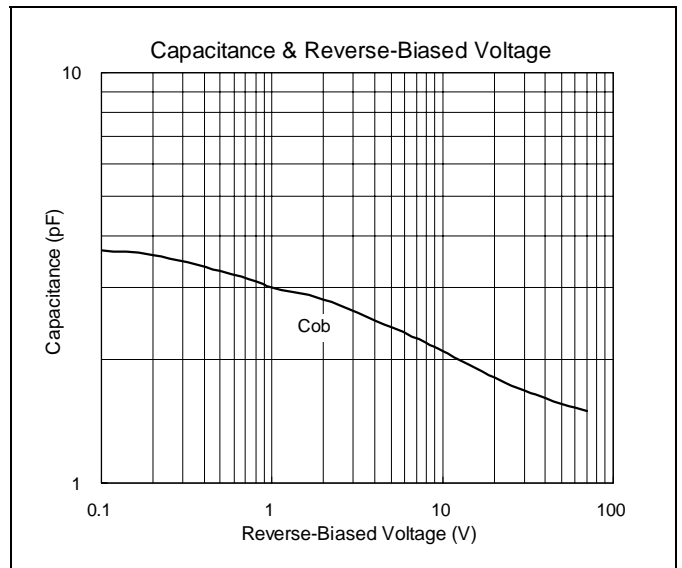
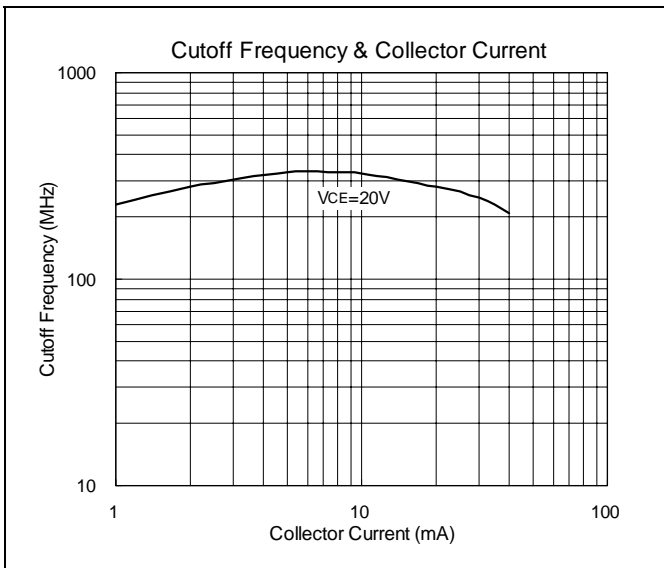
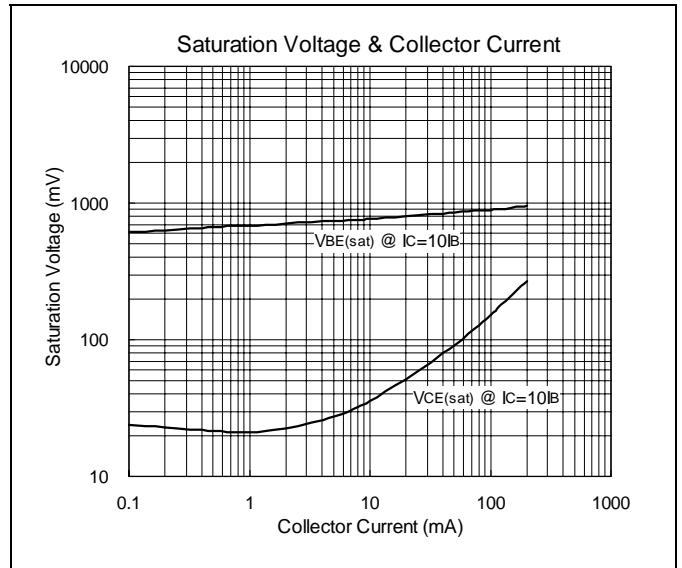
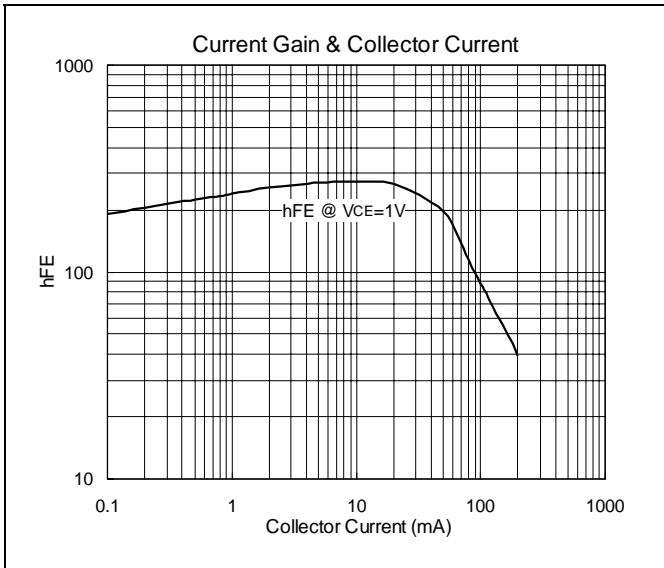
Characteristics (Ta=25°C)

| Symbol | Min. | Max. | Unit | Test Conditions |
|-----------|------|------|------|-----------------------------|
| BVCBO | 30 | - | V | IC=10uA, IE=0 |
| BVCEO | 25 | - | V | IC=1mA, IB=0 |
| BVEBO | 5.0 | - | V | IE=10uA, IC=0 |
| ICBO | - | 50 | nA | VCB=20V, IE=0 |
| IEBO | - | 50 | nA | VEB=3V, IC=0 |
| *VCE(sat) | - | 0.3 | V | IC=50mA, IB=5mA |
| *VBE(sat) | - | 950 | mV | IC=50mA, IB=5mA |
| *hFE1 | 120 | 360 | | VCE=1V, IC=2mA |
| *hFE2 | 60 | - | | VCE=1V, IC=50mA |
| fT | 300 | - | MHz | VCE=20V, IC=10mA,, f=100MHz |
| Cob | - | 4 | pF | VCB=5V, IE=0, f=100MHz |

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

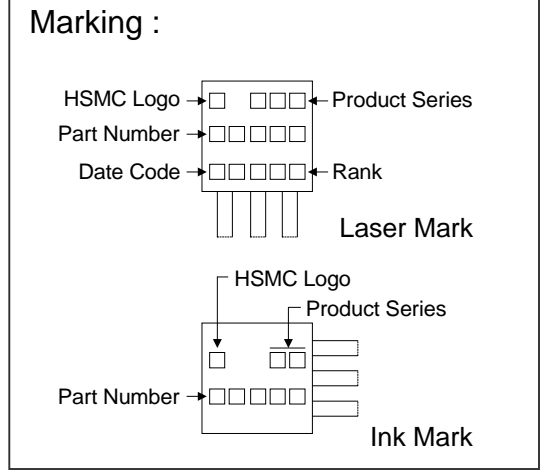
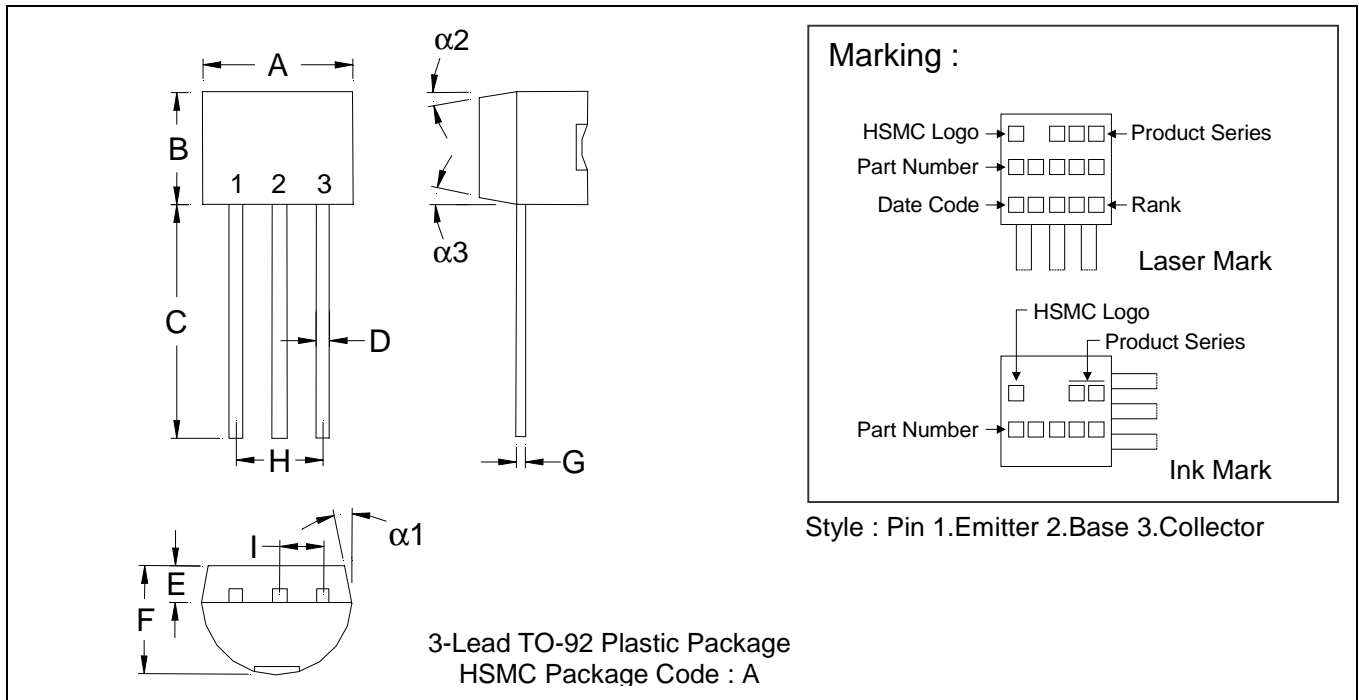


Characteristics Curve





TO-92 Dimension



Style : Pin 1. Emitter 2. Base 3. Collector

*: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 | α1 | - | *5° | - | *5° |
| E | - | *0.0500 | - | *1.27 | α2 | - | *2° | - | *2° |
| F | 0.1323 | 0.1480 | 3.36 | 3.76 | α3 | - | *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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