

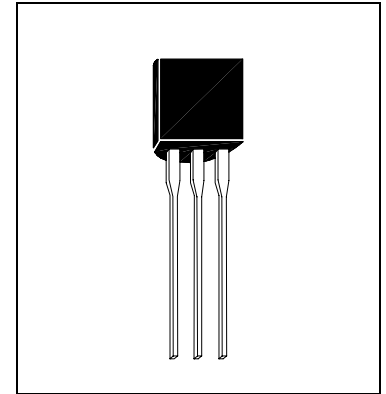


H2N5088

NPN EPITAXIAL PLANAR TRANSISTOR

Description

This device was designed for low noise, high gain , general purpose amplifier applications for 1uA to 25mA collector current.



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 35 V
 VCEO Collector to Emitter Voltage 30 V
 VEBO Emitter to Base Voltage 4.5 V
 IC Collector Current 50 mA

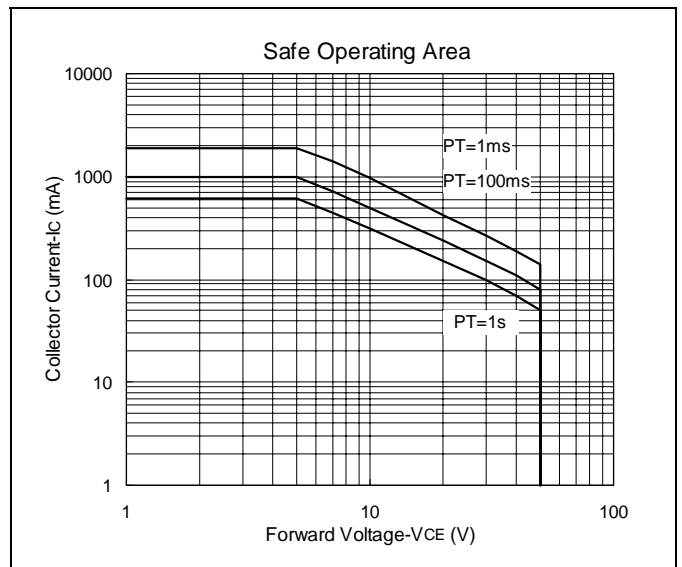
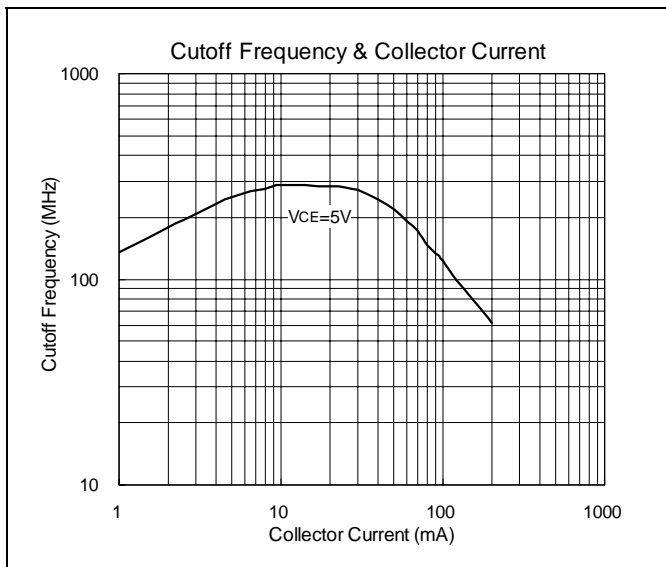
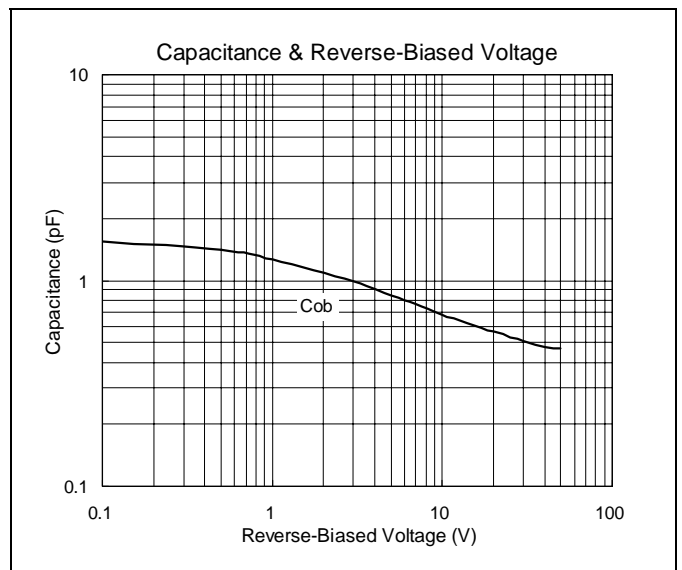
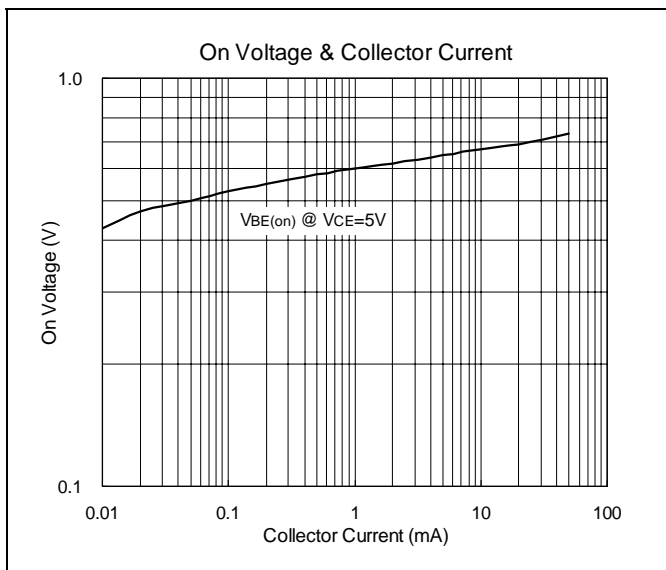
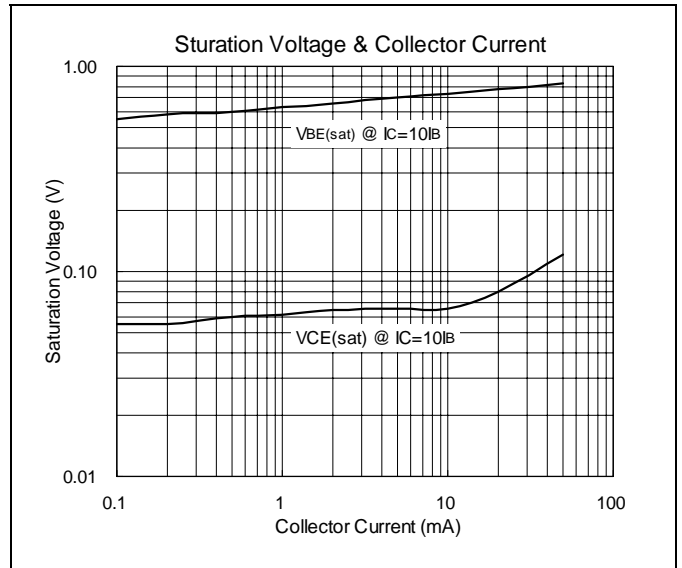
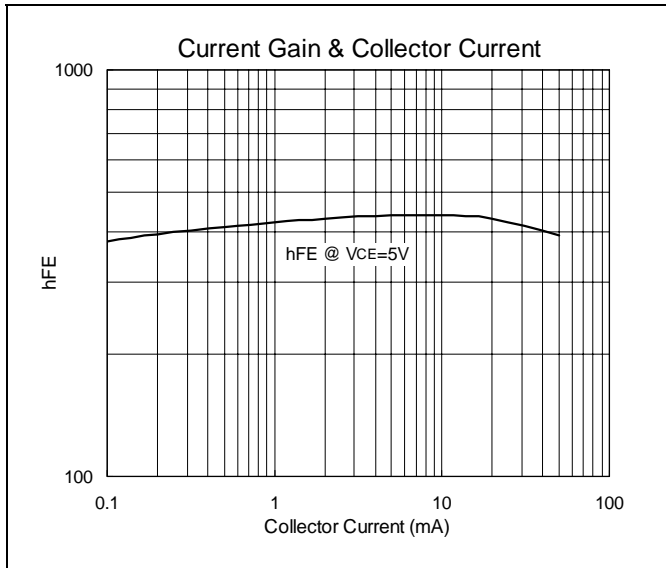
Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	35	-	-	V	IC=100uA, IE=0
BVCEO	30	-	-	V	IC=1mA, IB=0
BVEBO	4.5	-	-	V	IE=10uA, IC=0
ICBO	-	-	50	nA	VCB=20V, IE=0
IEBO	-	-	50	nA	VEB=3V, IC=0
*VCE(sat)	-	-	0.5	V	IC=10mA, IB=1mA
VBE(on)	-	-	0.8	V	IC=10mA, IB=5V
*hFE1	300	-	900		VCE=5V, IC=0.1mA
*hFE2	350	-	-		VCE=5V, IC=1mA
*hFE3	300	-	-		VCE=5V, IC=10mA
fT	50	-	-	MHz	VCE=5V, IC=0.5mA, f=100MHz
Cob	-	-	4.0	pF	VCB=5V, f=1MHz, IE=0

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

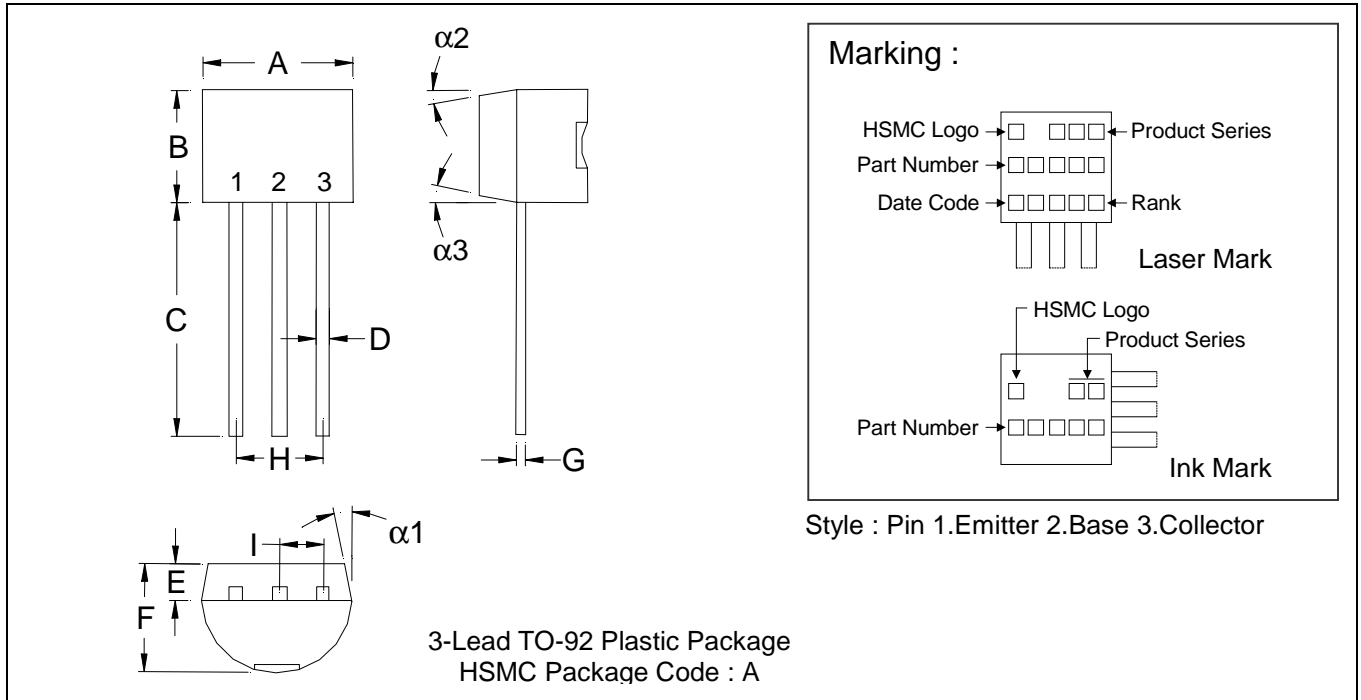


Characteristics Curve





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	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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