



HE9015

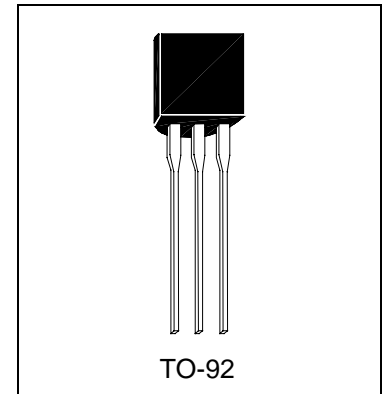
PNP EPITAXIAL PLANAR TRANSISTOR

Description

The HE9015 is designed for use in pre-amplifier of low level and low noise.

Features

- High Total Power Dissipation (PD: 450mW)
- Complementary to HE9014
- High hFE and Good Linearity



Absolute Maximum Ratings

- Maximum Temperatures
Storage Temperature -55 ~ +150 °C
Junction Temperature +150 °C Maximum
- Maximum Power Dissipation
Total Power Dissipation (Ta=25°C) 450 mW
- Maximum Voltages and Currents (Ta=25°C)
VCBO Collector to Base Voltage -50 V
VCEO Collector to Emitter Voltage -45 V
VEBO Emitter to Base Voltage -5 V
IC Collector Current -100 mA

Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-50	-	-	V	IC=-100uA, IE=0
BVCEO	-45	-	-	V	IC=-1mA, IB=0
BVEBO	-5	-	-	V	IE=-100uA, IC=0
ICBO	-	-	-50	nA	VCB=-50V, IE=0
IEBO	-	-	-50	nA	VEB=-5V, IC=0
*VCE(sat)	-	-0.20	-0.7	V	IC=-100mA, IB=-5mA
*VBE(sat)	-	-0.82	-1	V	IC=-100mA, IB=-5mA
VBE(on)	-0.6	-0.65	-0.75	V	VCE=-5V, IC=-2mA
*hFE	100	200	600		VCE=-5V, IC=-1mA
Cob	-	4.5	7	pF	VCB=-10V, f=1MHz, IE=0
fT	100	190	-	MHz	VCE=-5V, IC=-10mA

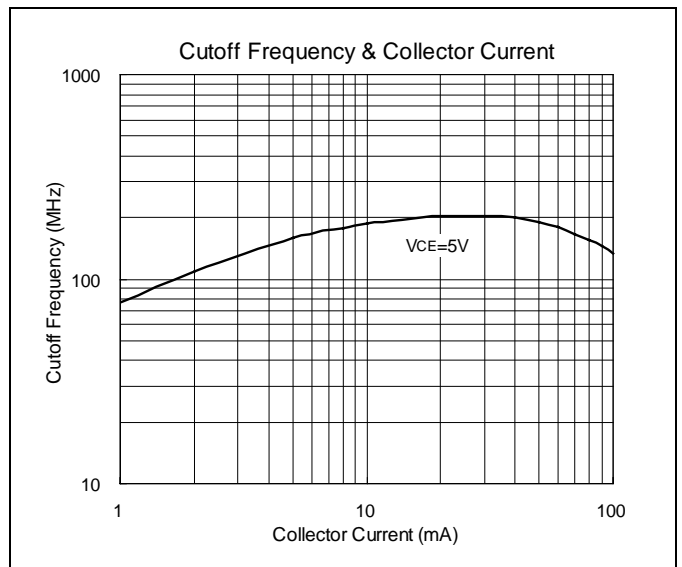
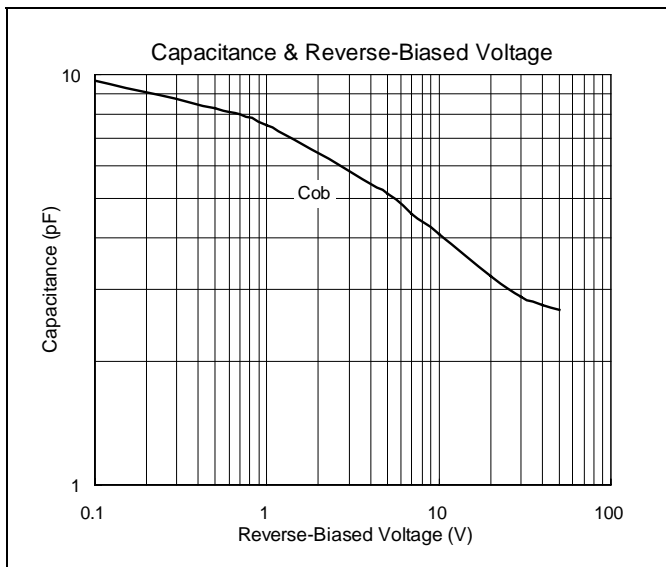
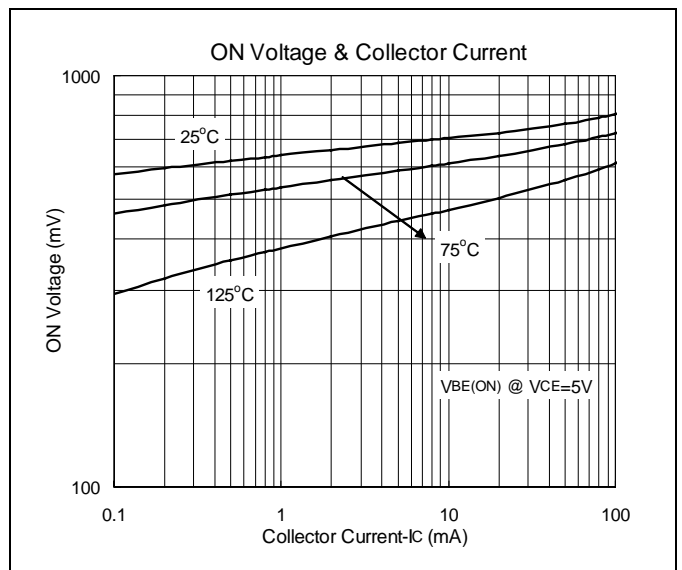
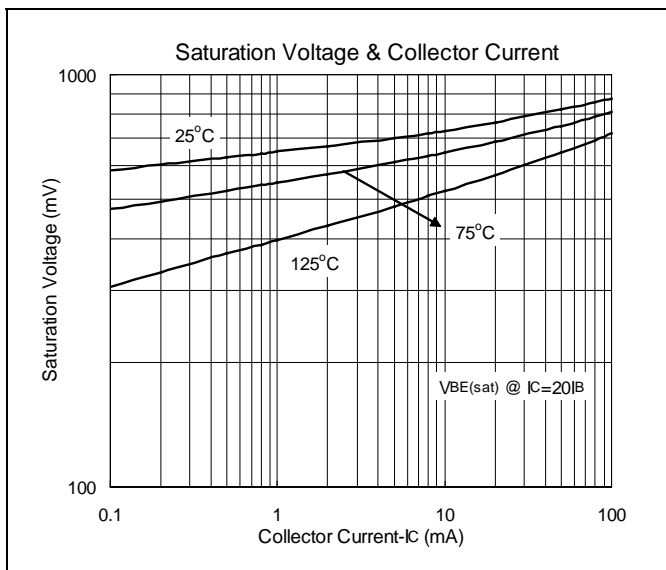
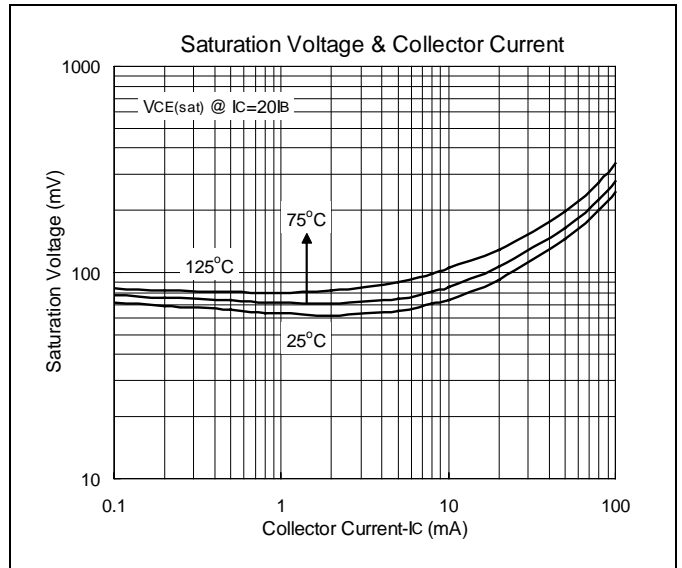
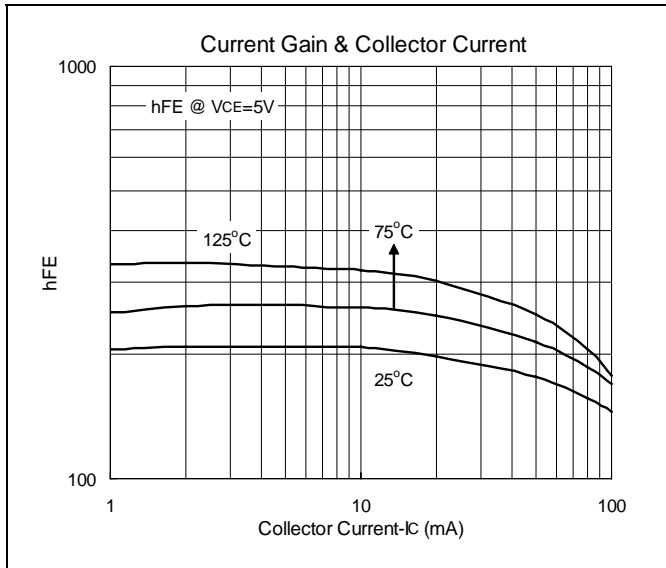
*Pulse Test: Pulse Width ≤380us, Duty Cycle≤2%

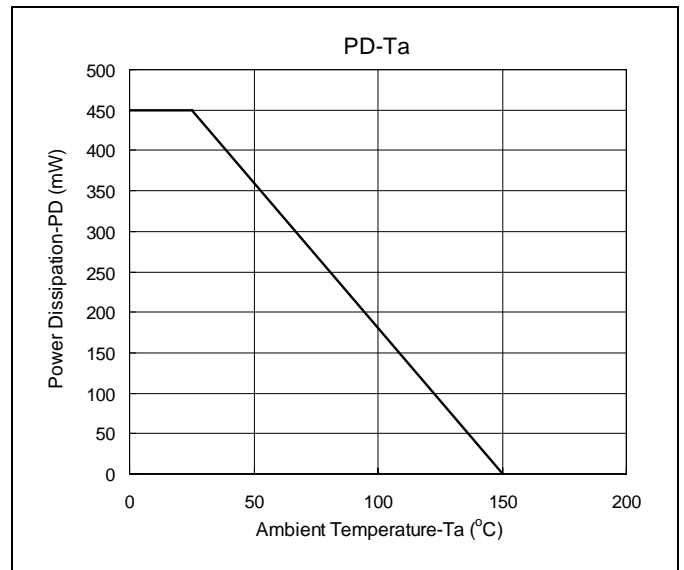
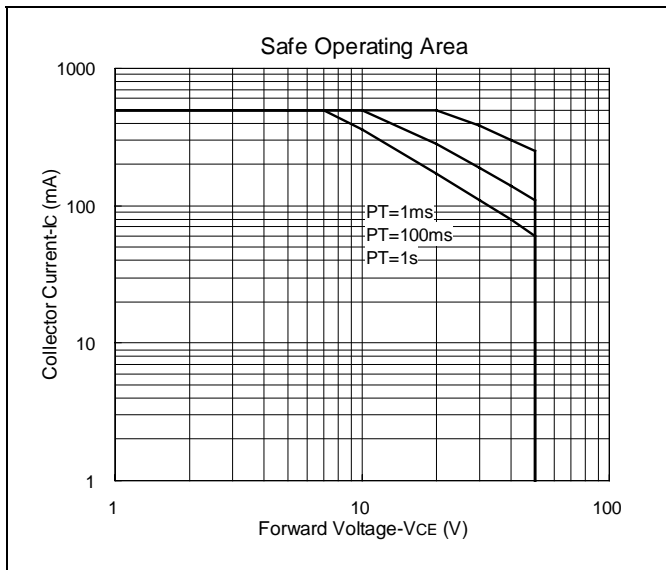
Classification on hFE1

Rank	B	C
Range	100-300	200-600



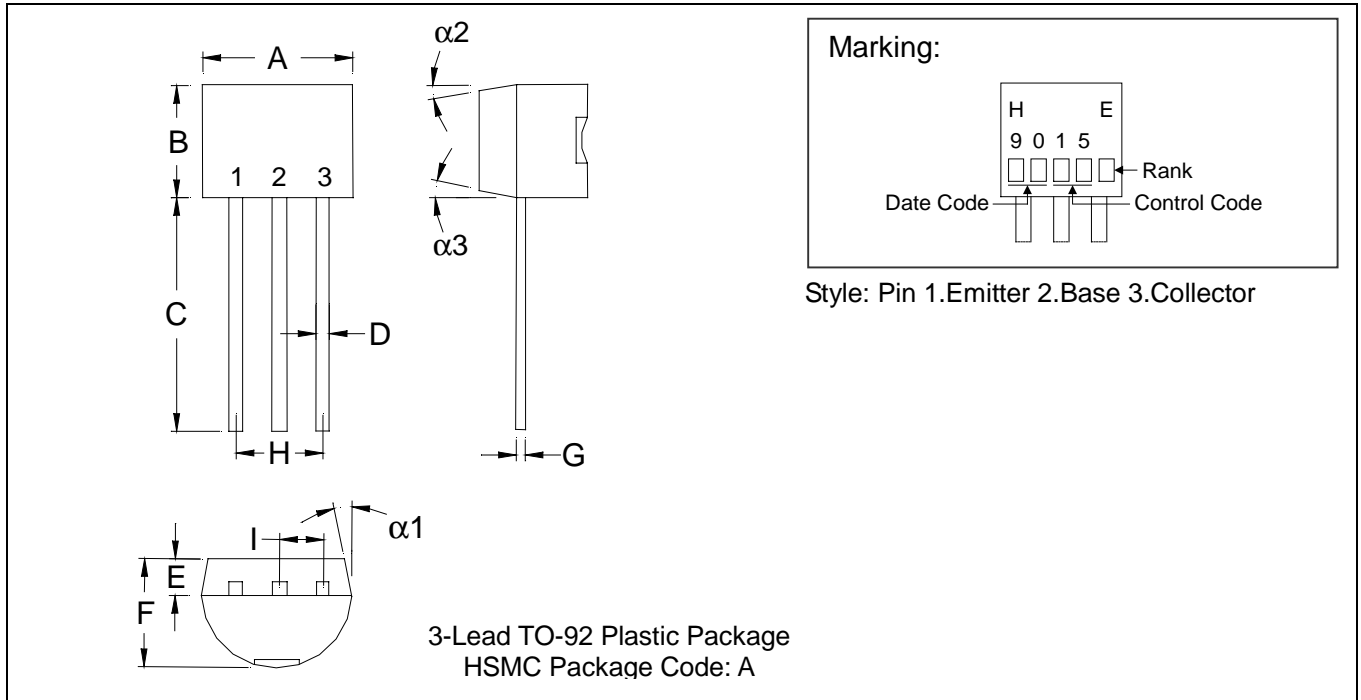
Characteristics Curve







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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