

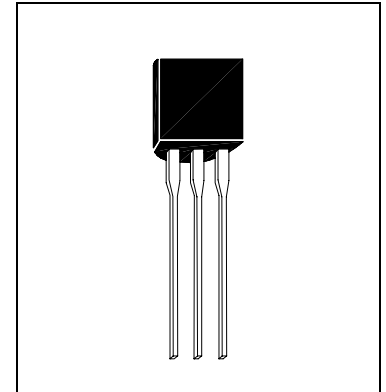


HE8550

PNP EPITAXIAL PLANAR TRANSISTOR

Description

The HE8550 is designed for use in 2W output amplifier of portable radios in class B push-pull operation.



Absolute Maximum Ratings

- Maximum Temperatures
 - Storage Temperature -55 ~ +150 °C
 - Junction Temperature +150 °C Maximum
- Maximum Power Dissipation
 - Total Power Dissipation (Ta=25°C) 1 W
- Maximum Voltages and Currents (Ta=25°C)
 - VCBO Collector to Base Voltage -40 V
 - VCEO Collector to Emitter Voltage -25 V
 - VEBO Emitter to Base Voltage -6 V
 - IC Collector Current -1.5 A
 - IB Base Current -0.5 A

Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-40	-	-	V	IC=-100uA, IE=0
BVCEO	-25	-	-	V	IC=-2mA, IB=0
BVEBO	-6	-	-	V	IE=-100uA, IC=0
ICBO	-	-	-100	nA	VCB=-35V, IE=0
IEBO	-	-	-100	nA	VEB=-6V, IC=0
*VCE(sat)	-	-	-0.5	V	IC=-0.8A, IB=-80mA
*VBE(sat)	-	-	-1.2	V	IC=-0.8A, IB=-80mA
VBE(on)	-	-	-1	V	VCE=-1V, IC=-10mA
*hFE1	45	-	-		VCE=-1V, IC=-5mA
*hFE2	85	-	500		VCE=-1V, IC=-100mA
*hFE3	40	-	-		VCE=-1V, IC=-800mA
fT	100	-	-	MHz	VCE=-10V, IC=-50mA, f=100MHz

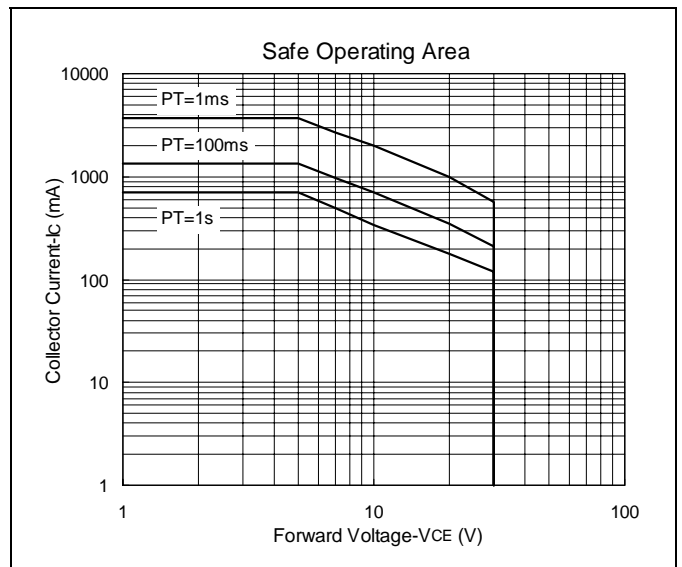
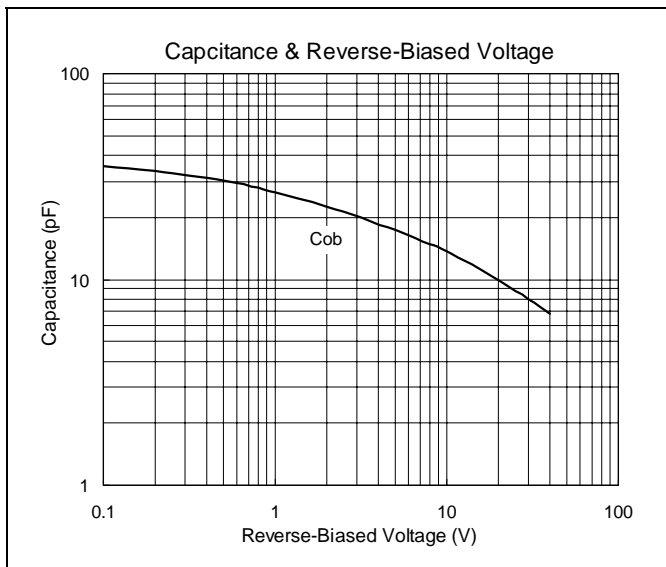
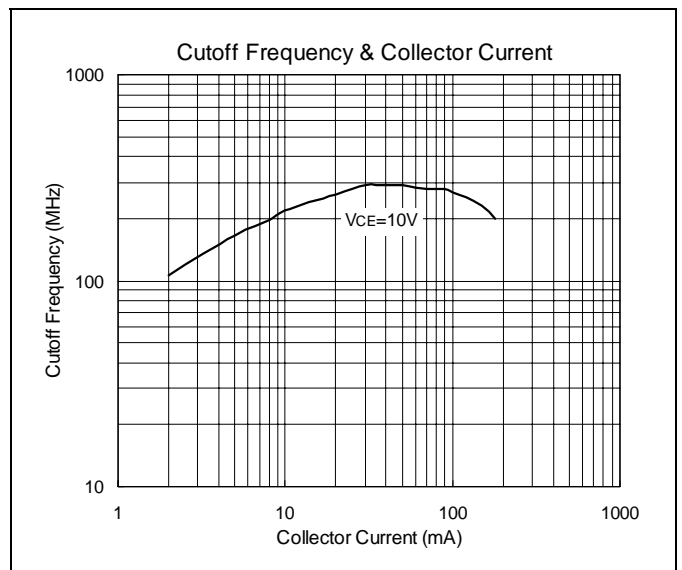
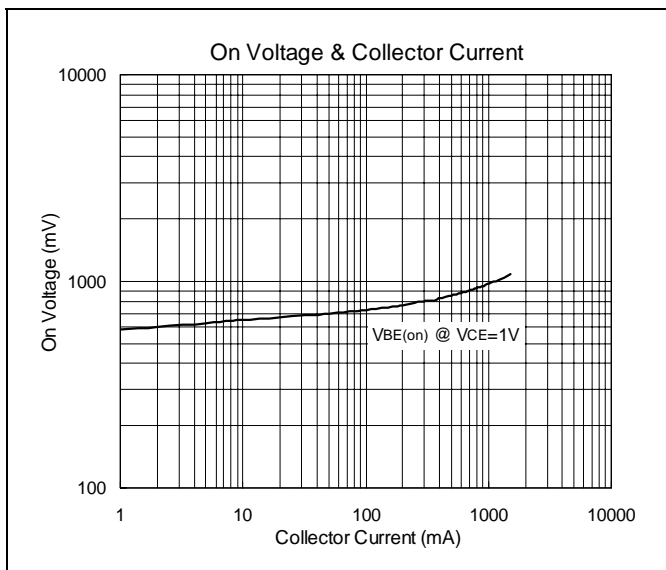
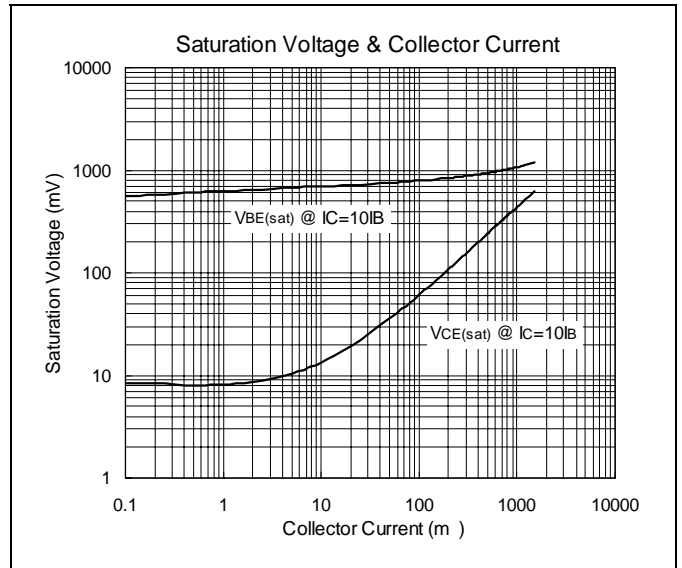
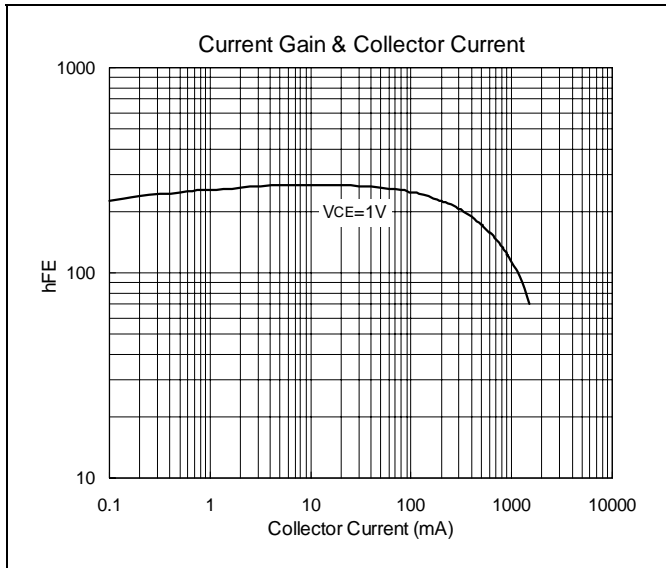
*Pulse Test : Pulse Width ≤380us, Duty Cycle≤2%

Classification on hFE2

Rank	B	C	D	E
Range	85-160	120-200	160-320	250-500

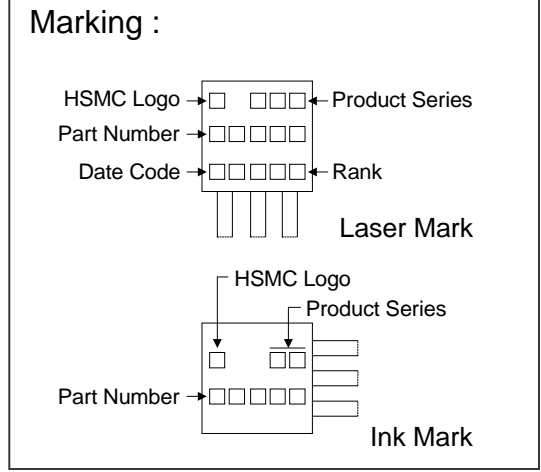
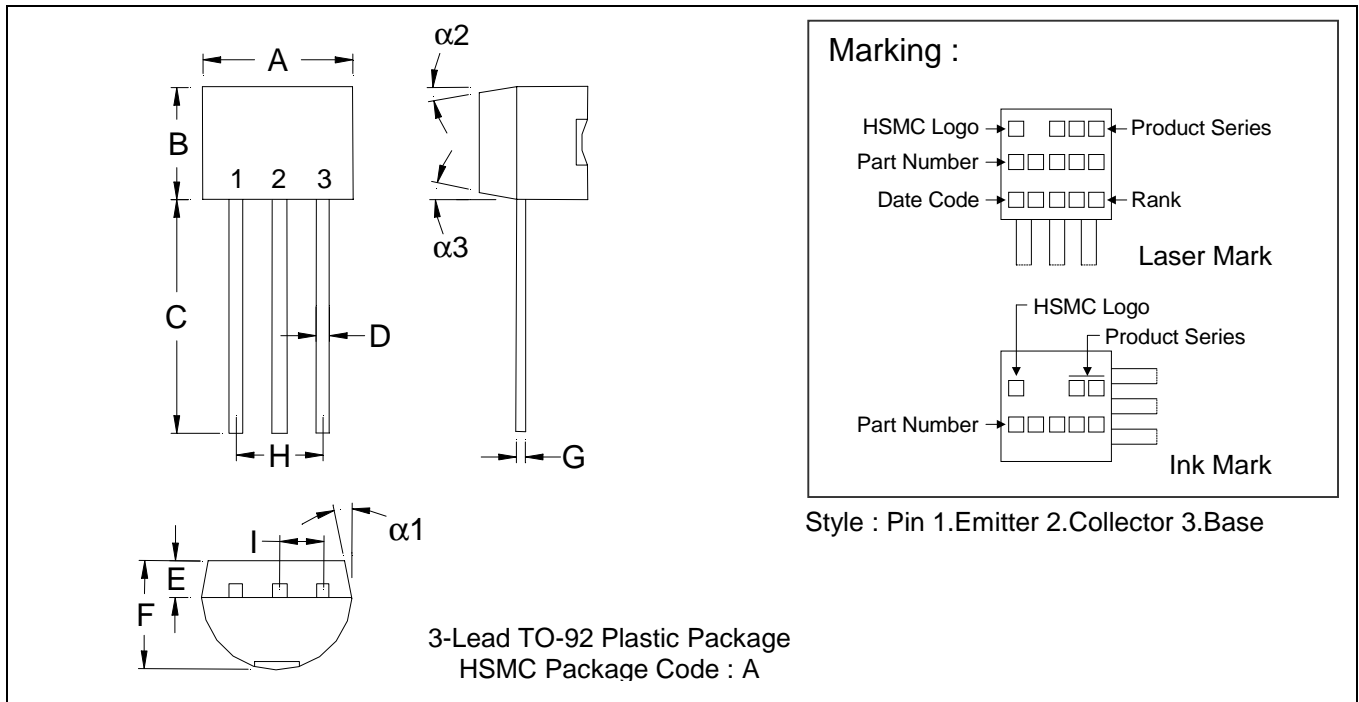


Characteristics Curve





TO-92 Dimension



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

*: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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