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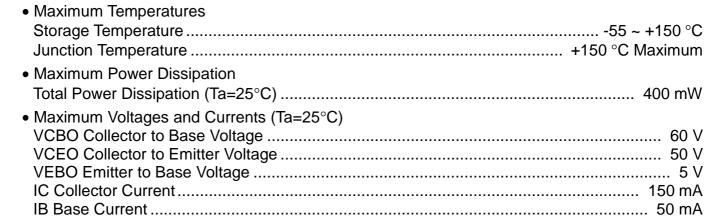
# HSC1815

NPN EPITAXIAL PLANAR TRANSISTOR

# **Description**

The HSC1815 is designed for use in driver stage of AF amplifier general purpose amplification.

# **Absolute Maximum Ratings**



# Characteristics (Ta=25°C)

Symbol	Min.	Тур.	Max.	Unit	Test Conditions		
BVCBO	60	-	-	V	IC=100uA, IE=0		
BVCEO	50	-	-	V	IC=1mA, IB=0		
BVEBO	5	-	-	V	IE=10uA, IC=0		
ICBO	-	-	100	nA	VCB=60V, IE=0		
IEBO	-	-	100	nA	VEB=5V, IC=0		
*VCE(sat)	-	-	250	mV	IC=100mA, IB=10mA		
*VBE(sat)	-	-	1	V	IC=100mA, IB=10mA		
*hFE1	120	-	700		VCE=6V, IC=2mA		
*hFE2	25	-	-		VCE=6V, IC=150mA		
fT	80	-	-	MHz	VCE=10V, IC=1mA, f=100MHz		
Cob	-	-	3.5	pF	VCB=10V, f=1MHz, IE=0		

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

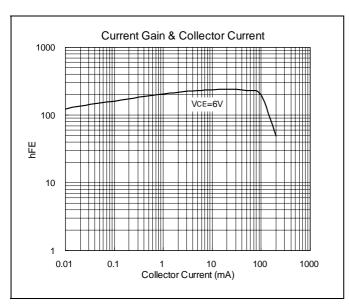
# Classification of hFE1

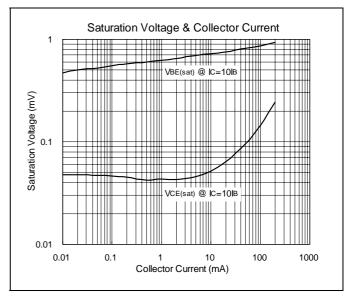
Rank	Rank Y		BL	
Range	120-240	200-400	350-700	

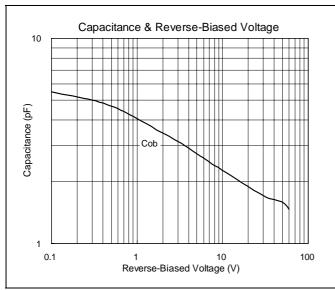
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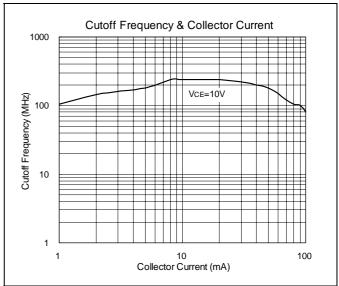
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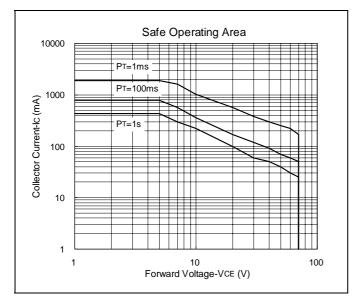
## **Characteristics Curve**

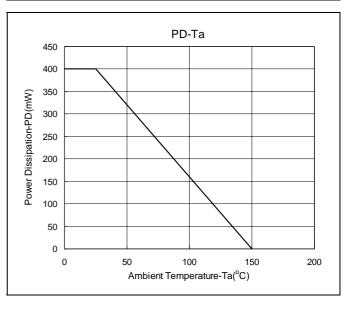








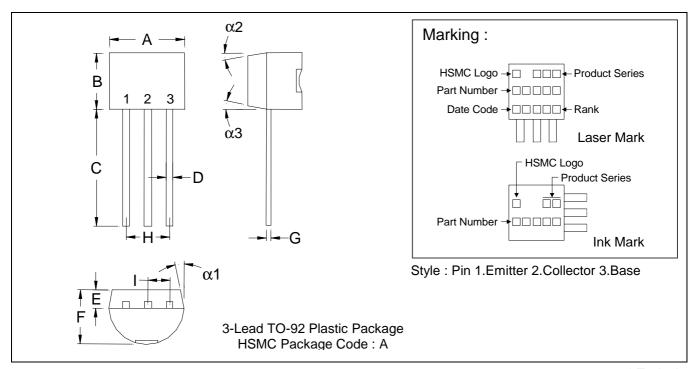




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## **TO-92 Dimension**



\*:Typical

DIM	Inches		Millimeters		DIM	Inches		Millimeters	
	Min.	Max.	Min.	Max.	ווועו	Min.	Max.	Min.	Max.
Α	0.1704	0.1902	4.33	4.83	G	0.0142	0.0220	0.36	0.56
В	0.1704	0.1902	4.33	4.83	Ι	1	*0.1000	1	*2.54
С	0.5000	-	12.70	-	I	-	*0.0500	-	*1.27
D	0.0142	0.0220	0.36	0.56	α1	-	*5°	-	*5°
Е	-	*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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