

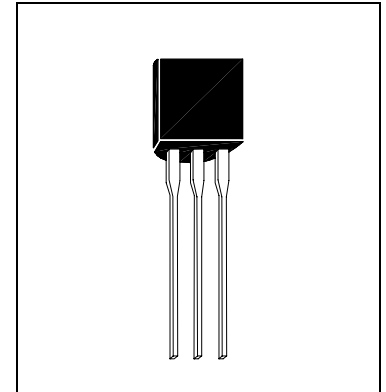


HDY227

NPN EPITACIAL PLANAR TRANSISTOR

Description

Low frequency power amplifier.



Absolute Maximum Ratings

- Maximum Temperatures
 Storage Temperature -55 ~ +150 °C
 Junction Temperature +150 °C Maximum
- Maximum Power Dissipation
 Total Power Dissipation (Ta=25°C) 400 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 300 mA

Characteristics (Ta=25°C)

Symbol	Min.	Max.	Unit	Test Conditions
BVCBO	30	-	V	IC=100uA, IE=0
BVCEO	25	-	V	IC=10mA, IB=0
BVEBO	5	-	V	IE=10uA, IC=0
ICBO	-	100	nA	VCB=25V, IE=0
IEBO	-	100	nA	VEB=3V, IC=0
*VCE(sat)	-	400	mV	IC=300mA, IB=30mA
*hFE	70	400	-	IC=50mA, VCE=1V

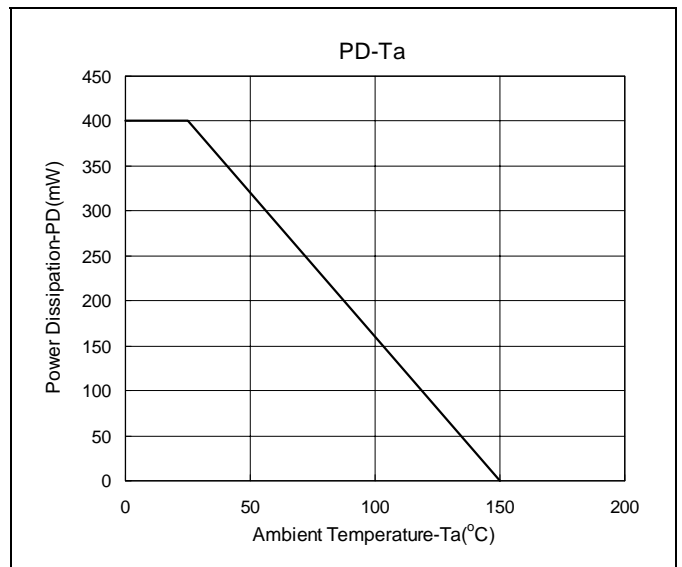
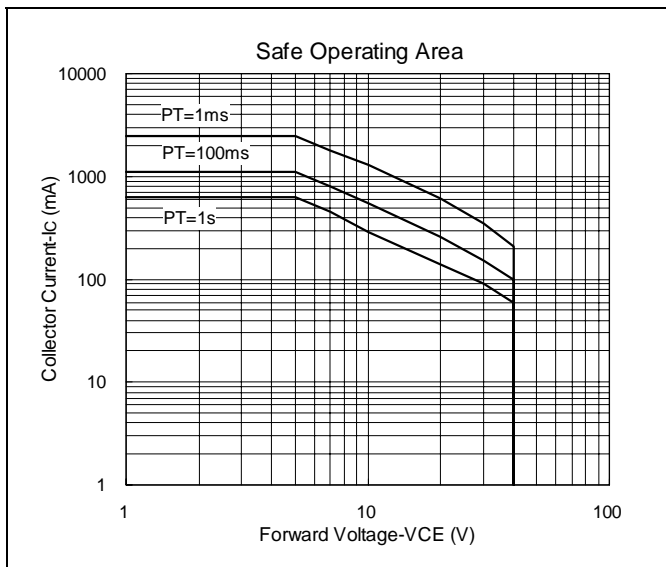
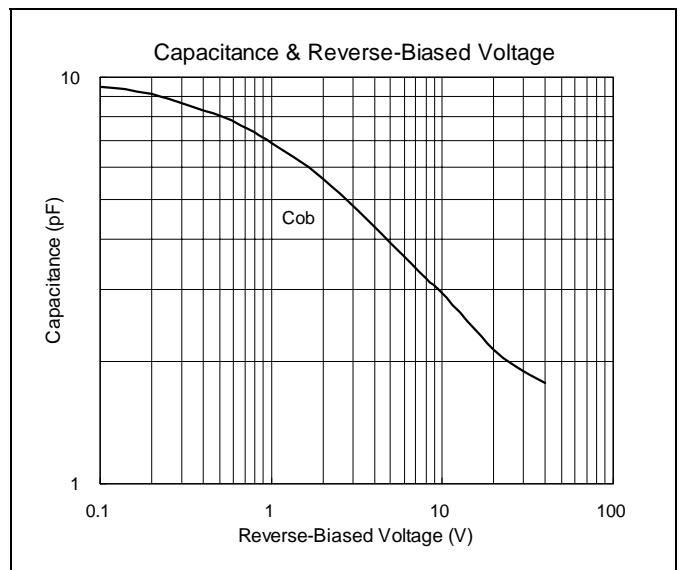
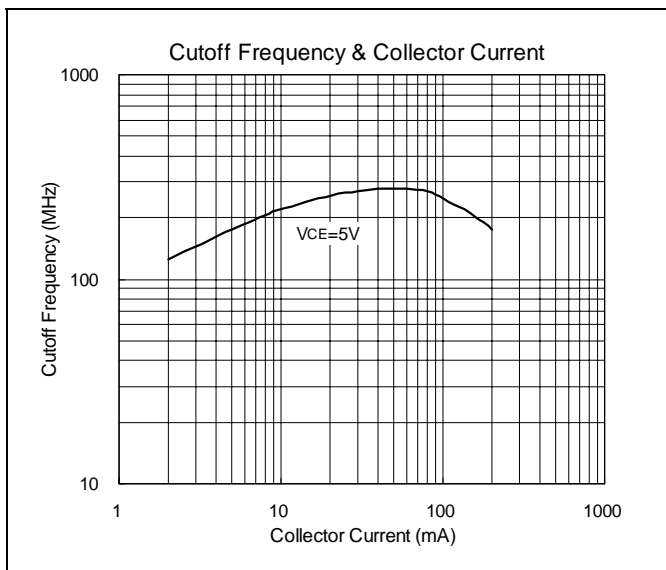
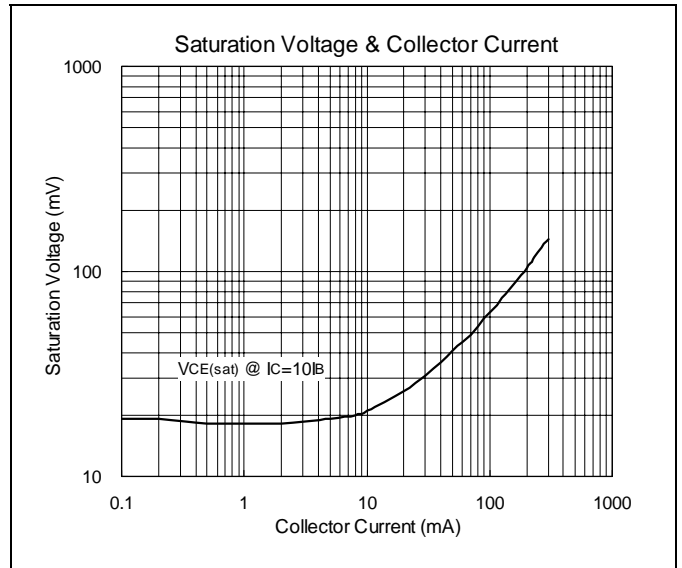
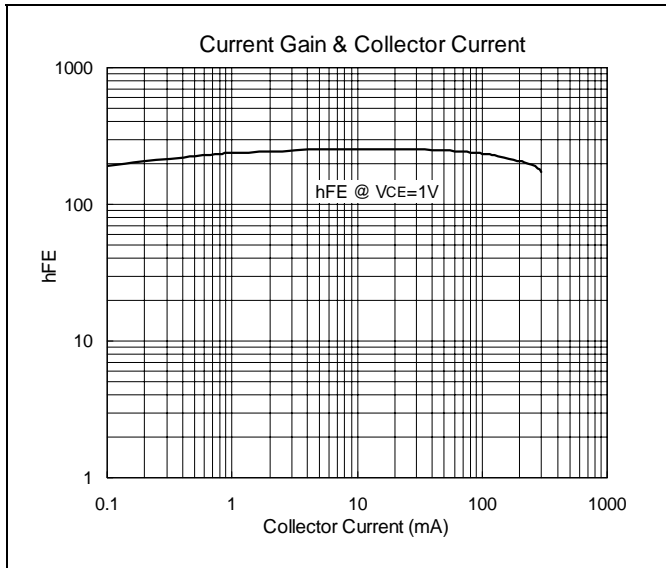
*Pulse Test : Pulse Width ≤380us, Duty Cycle≤2%

Classification of hFE

Rank	O	Y	G
hFE	70-140	120-240	200-400



Characteristics Curve





TO-92 Dimension

3-Lead TO-92 Plastic Package
HSMC Package Code : A

Marking :

HSMC Logo → □ □ □ □ ← Product Series
 Part Number → □ □ □ □ □ □
 Date Code → □ □ □ □ □ □ ← Rank
 Laser Mark

HSMC Logo
 Product Series
 Part Number → □ □ □ □ □ □
 Ink Mark

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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