

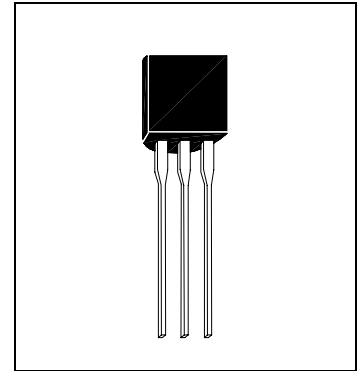


HSC2228Y

NPN EPITAXIAL PLANAR TRANSISTOR

Description

The HSC2228Y is designed for high voltage amplifier applications.



Absolute Maximum Ratings

- Maximum Temperatures
 - Storage Temperature -55 ~ +150 °C
 - Junction Temperature 150 °C Maximum
- Maximum Power Dissipation
 - Total Power Dissipation (Ta=25°C) 900 mW
- Maximum Voltages and Currents (Ta=25°C)
 - VCBO Collector to Base Voltage 160 V
 - VCEO Collector to Emitter Voltage 160 V
 - VEBO Emitter to Base Voltage 5 V
 - IC Collector Current 50 mA

Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	160	-	-	V	IC=100uA, IE=0
BVCEO	160	-	-	V	IC=1mA, IB=0
BVEBO	5	-	-	V	IE=10uA, IC=0
ICBO	-	-	1	uA	VCB=160V, IE=0
IEBO	-	-	1	uA	VEB=5V
*VCE(sat)	-	-	0.6	V	IC=2mA, IB=20mA
*VBE(sat)	-	-	1	V	IC=2mA, IB=20mA
*hFE	60	-	320		VCE=10V, IC=10mA
fT	50	-	-	MHz	VCE=30V, IC=10mA
Cob	-	-	4	pF	VCB=10V, f=1MHZ

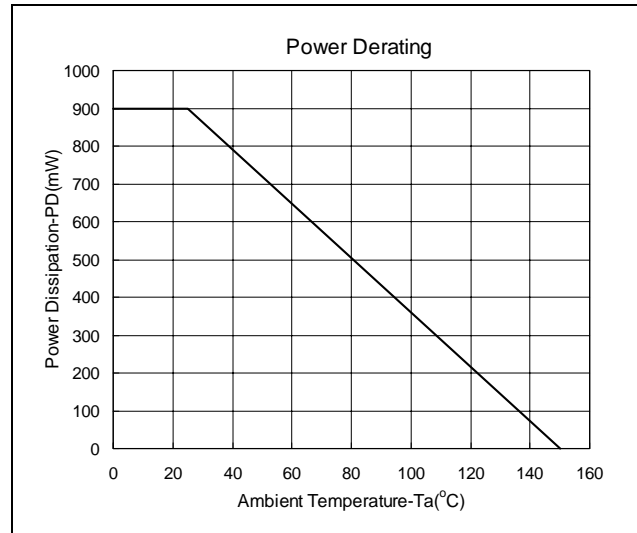
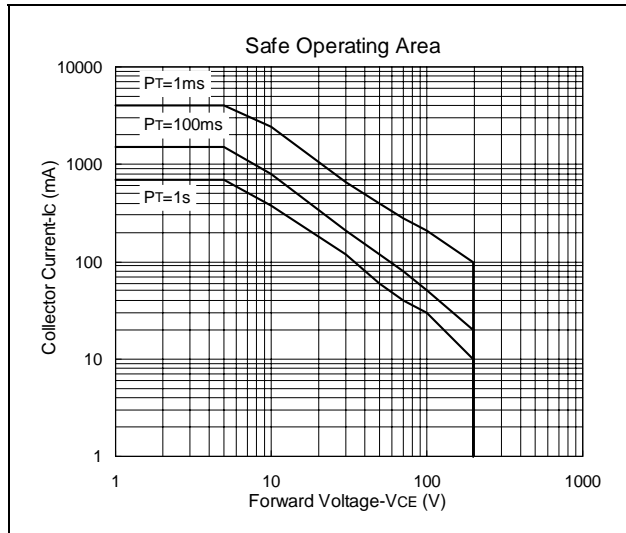
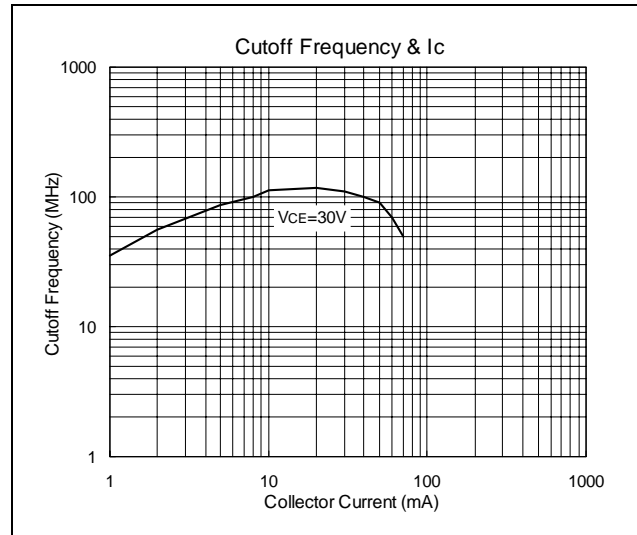
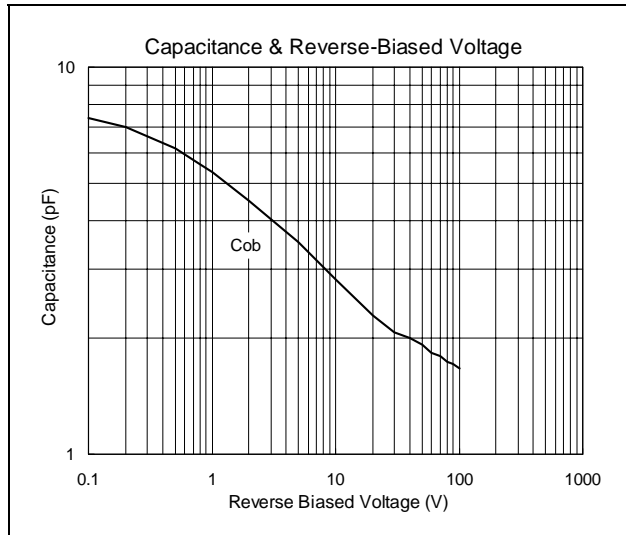
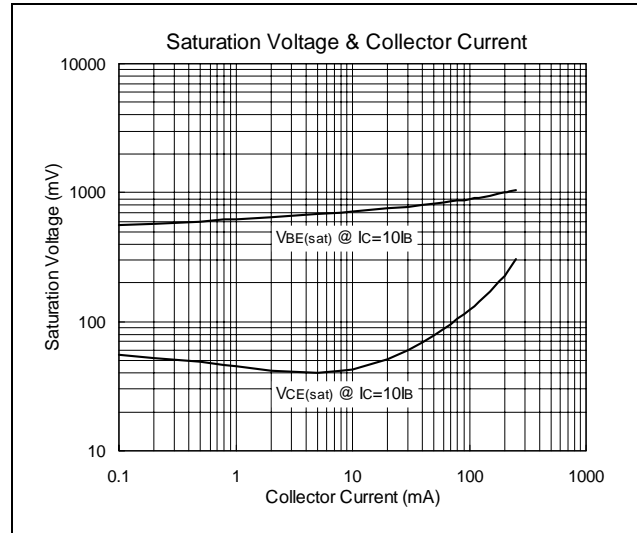
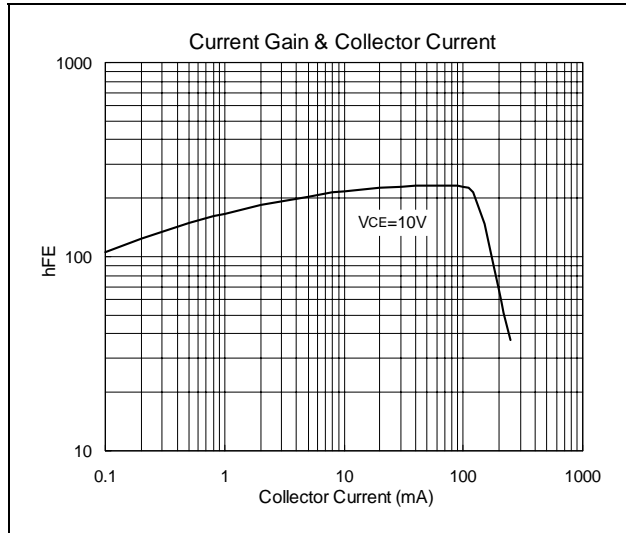
*Pulse Test : Pulse Width ≤380us, Duty Cycle≤2%

Classification of hFE

Rank	D	E	F
Range	60-120	100-200	160-320

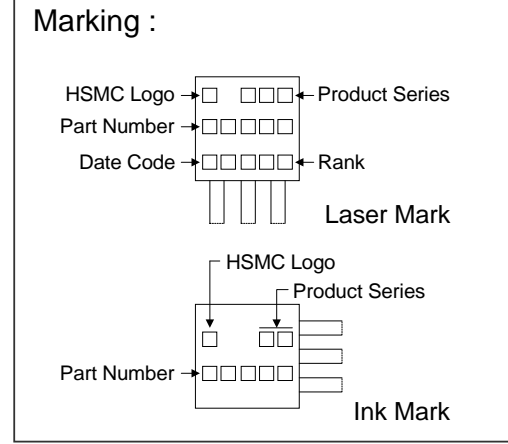
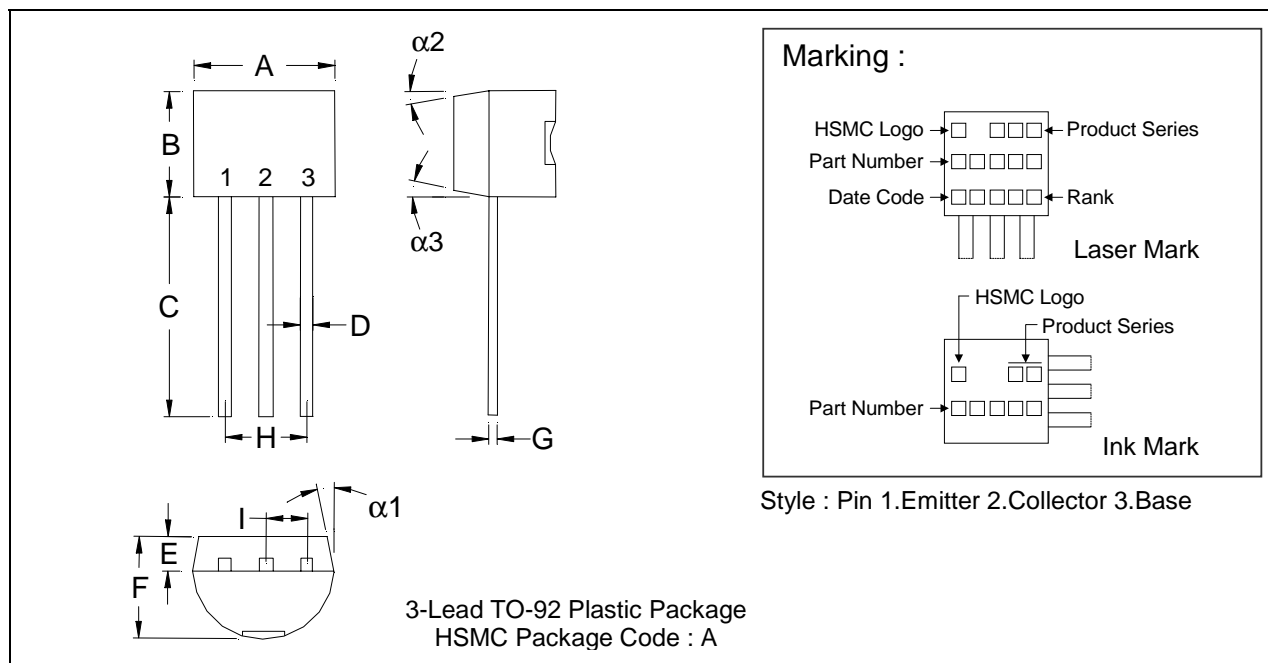


Characteristics Curve





TO-92 Dimension



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

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°

*:Typical

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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