



HJ1109

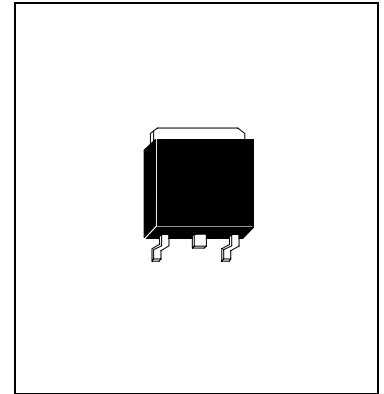
PNP EPITAXIAL PLANAR TRANSISTOR

Description

- Low frequency high voltage amplifier.
- Complementary pair with HJ1609.

Absolute Maximum Ratings (Ta=25°C)

- Maximum Temperatures
 Storage Temperature -55 ~ +150 °C
 Junction Temperature +150 °C
- Maximum Power Dissipation
 Total Power Dissipation (Ta=25°C) 1.25 W
- Maximum Voltages and Currents
 BVCBO Collector to Base Voltage -160 V
 BVCEO Collector to Emitter Voltage -160 V
 BVEBO Emitter to Base Voltage -5 V
 IC Collector Current -100 mA



Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-160	-	-	V	IC=-10uA, IE=0
BVCEO	-160	-	-	V	IC=-1mA, IB=0
BVEBO	-5	-	-	V	IE=-10uA, IC=0
ICBO	-	-	-10	uA	VCB=-140V, IE=0
*VCE(sat)	-	-	-2	V	IC=-30mA, IB=-3mA
VBE	-	-	-1.5	V	VCE=-5V, IC=-10mA
*hFE1	60	-	320		VCE=-5V, IC=-10mA
*hFE2	30	-	-		VCE=-5V, IC=-1mA
FT	-	140	-	MHz	VCE=-5V, IC=-10mA
Cob	-	5.5	-	pF	VCB=-10V, f=1MHz

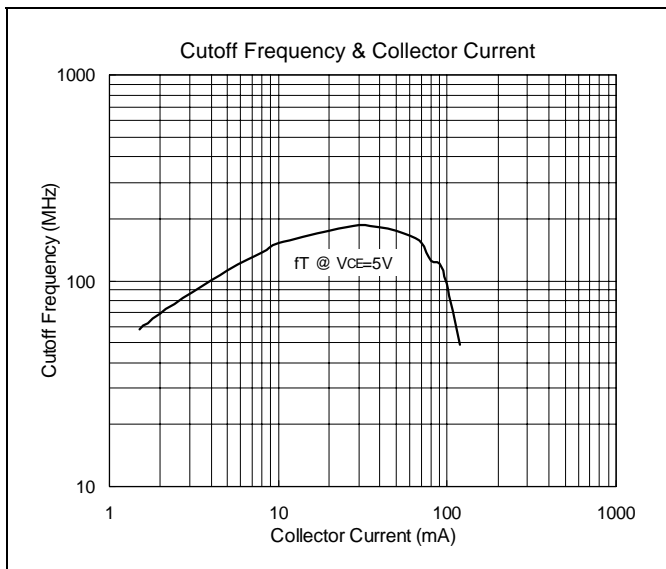
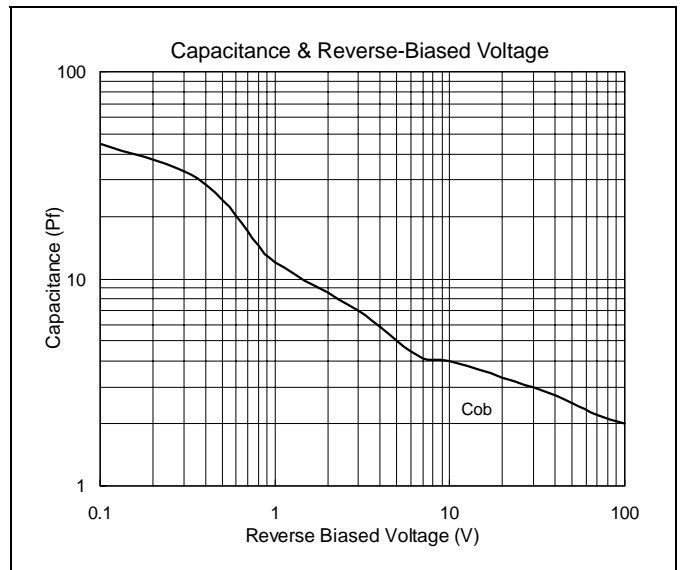
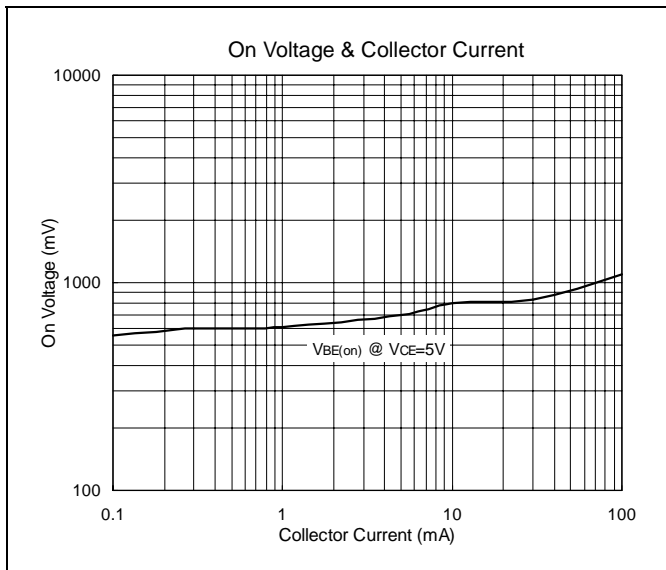
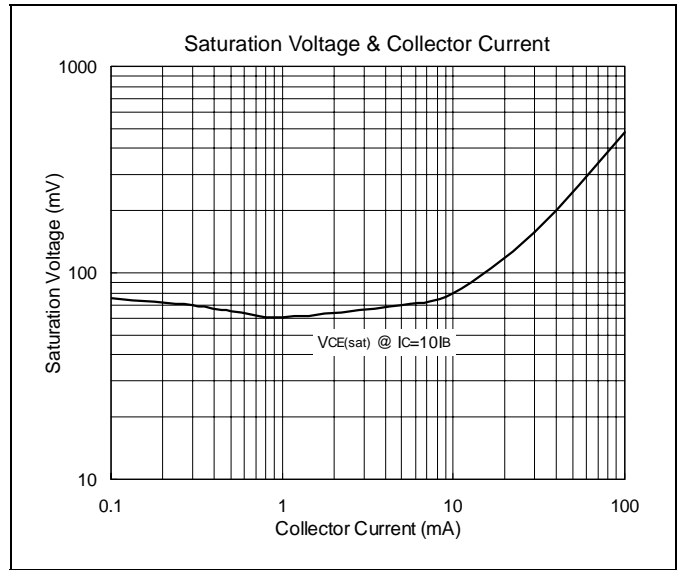
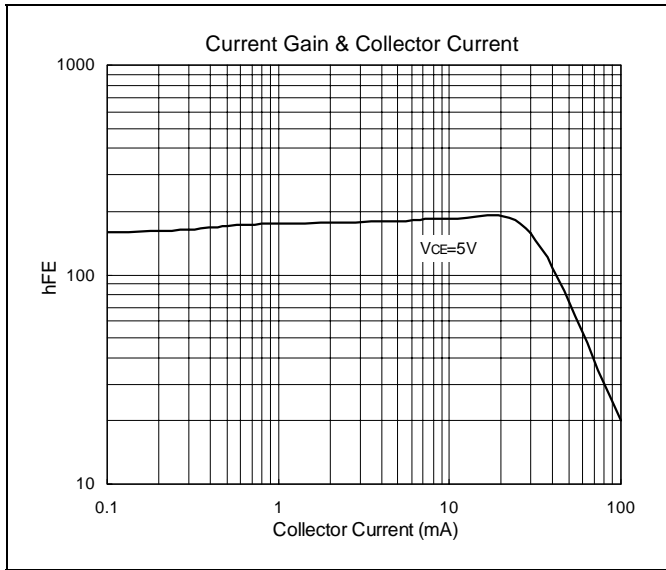
*Pulse Test : Pulse Width ≤380us, Duty Cycle≤2%

Classification Of hFE1

Rank	B	C	D
Range	60-120	100-200	160-320

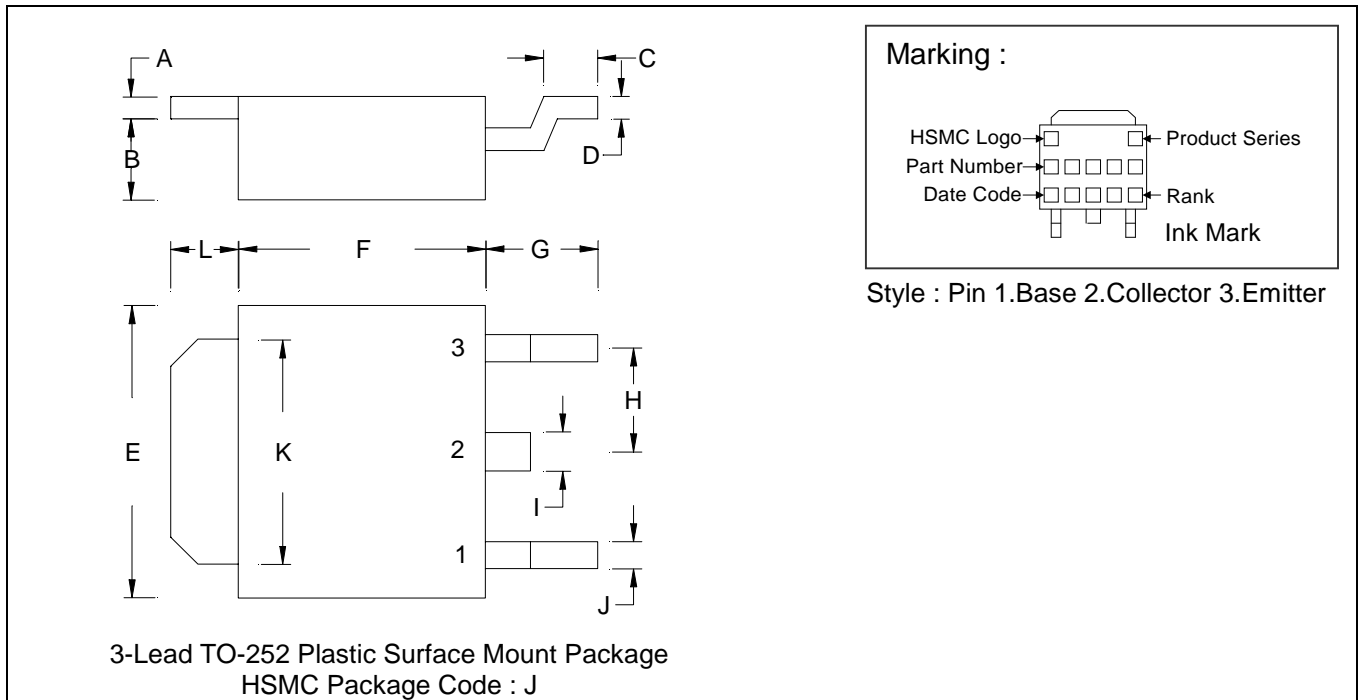


Characteristics Curve





TO-252 Dimension



*:Typical

DIM	Inches		Millimeters		DIM	Inches		Millimeters	
	Min.	Max.	Min.	Max.		Min.	Max.	Min.	Max.
A	0.0177	0.0217	0.45	0.55	G	0.0866	0.1102	2.20	2.80
B	0.0650	0.0768	1.65	1.95	H	-	*0.0906	-	*2.30
C	0.0354	0.0591	0.90	1.50	I	-	0.0354	-	0.90
D	0.0177	0.0236	0.45	0.60	J	-	0.0315	-	0.80
E	0.2520	0.2677	6.40	6.80	K	0.2047	0.2165	5.20	5.50
F	0.2125	0.2283	5.40	5.80	L	0.0551	0.0630	1.40	1.60

- Notes :**
- 1.Dimension and tolerance based on our Spec. dated May. 05,1996.
 - 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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