

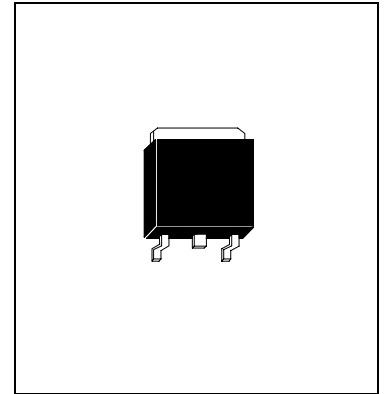


HJ44H11

NPN EPITAXIAL PLANAR TRANSISTOR

Description

The HJ44H11 is designed for various specific and general purpose applications, such as: output and driver stages of amplifiers operating at frequencies from DC to greater than 1MHz; series, shunt and switching regulators; low and high frequency inverters/converters; and many others.



Absolute Maximum Ratings (Ta=25°C)

- Maximum Temperatures
 - Storage Temperature -55 ~ +150 °C
 - Junction Temperature +150 °C
- Maximum Power Dissipation
 - Total Power Dissipation (Tc=25°C) 20 W
- Maximum Voltages and Currents
 - BVCEO Collector to Base Voltage 80 V
 - BVCES Collector to Emitter Voltage 80 V
 - BVEBO Emitter to Base Voltage 5 V
 - IC Collector Current 8 A
 - IB Base Current 5 A

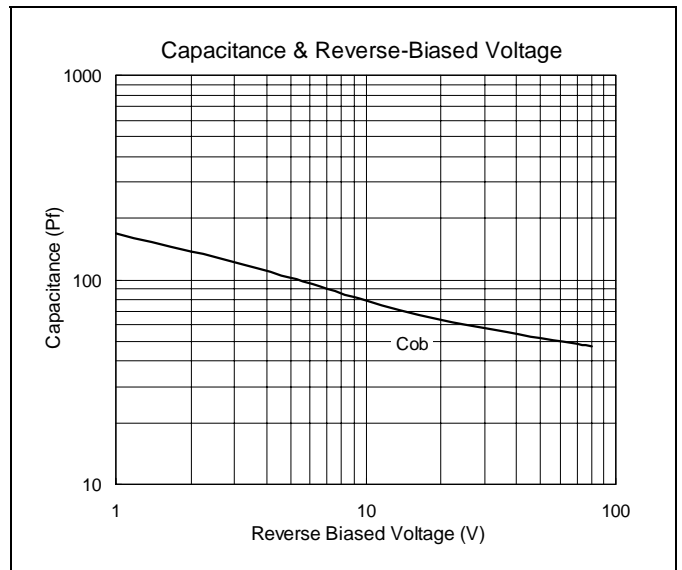
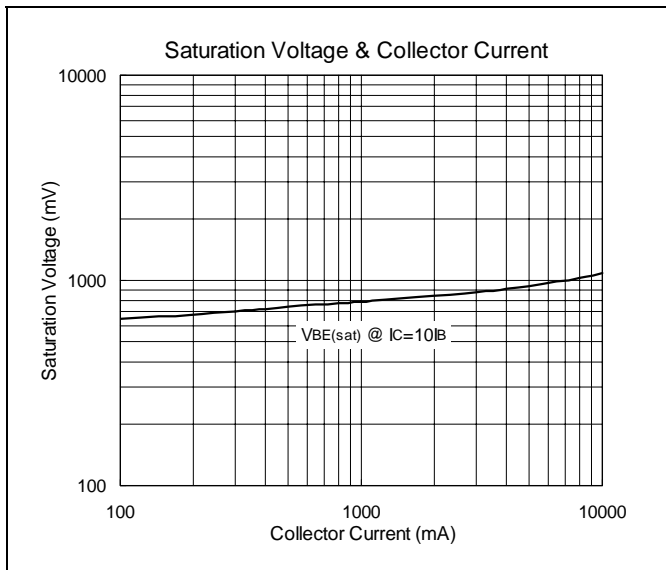
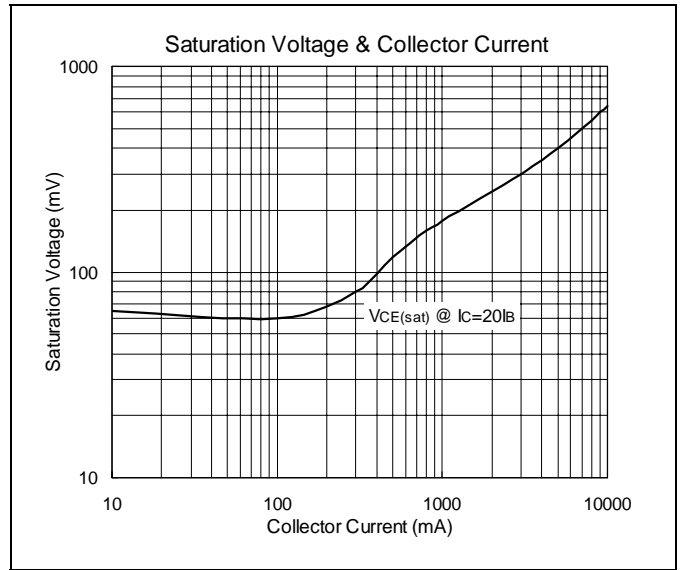
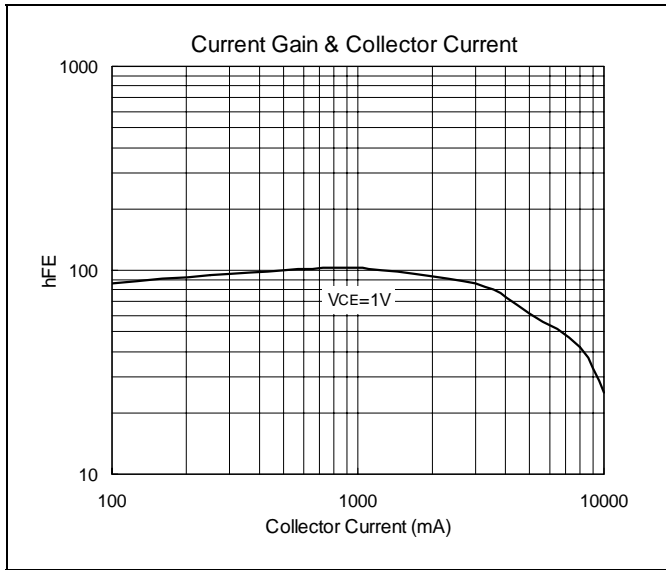
Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCEO	80	-	-	V	IC=30mA, IB=0
BVCES	80	-	-	V	IC=1mA, IB=0
BVEBO	5	-	-	V	IE=1mA, IC=0
ICES	-	-	10	uA	VCB=80V, VEB=0
IEBO	-	-	50	uA	VEB=5V, IC=0
*VCE(sat)	-	-	1	V	IC=8A, IB=0.4A
*VBE(sat)	-	-	1.5	V	IC=8A, IB=0.8A
*hFE1	60	-	-		VCE=1V, IC=2A
*hFE2	40	-	-		VCE=1V, IC=4A
Cob	-	130	-	pF	VCB=10V,
fT	-	50	-	MHz	VCE=10V, IC=500mA, f=20MHz

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

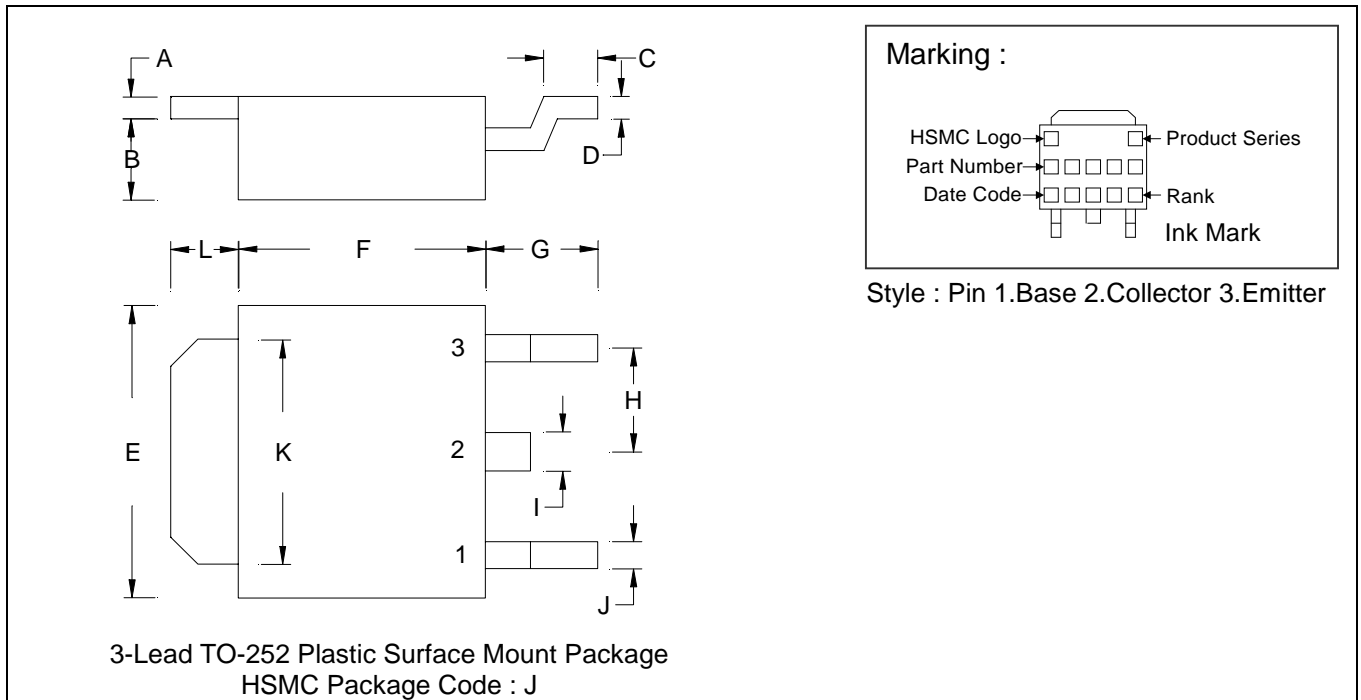


Characteristics Curve





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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