



HJ50

NPN EPITAXIAL PLANAR TRANSISTOR

Description

The HJ50 is designed for line operated audio output amplifier switch mode power supply drivers and other switching applications.

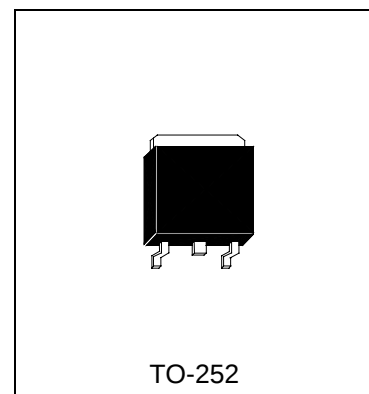
Absolute Maximum Ratings (Ta=25°C)

- Maximum Temperatures
Storage Temperature -55 ~ +150 °C
Junction Temperature +150 °C
- Maximum Power Dissipation
Total Power Dissipation (Tc=25°C) 15 W
- Maximum Voltages and Currents
BVCBO Collector to Base Voltage 500 V
BVCEO Collector to Emitter Voltage 400 V
BVEBO Emitter to Base Voltage 5 V
IC Collector Current 1 A

Characteristics (Ta=25°C)

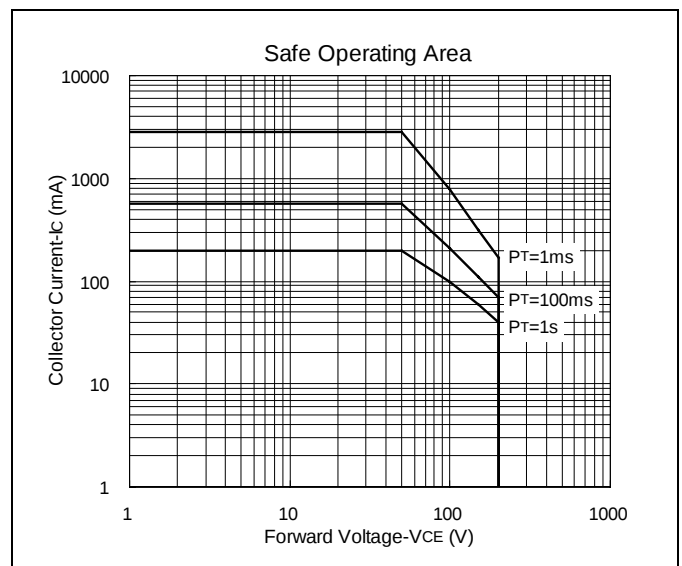
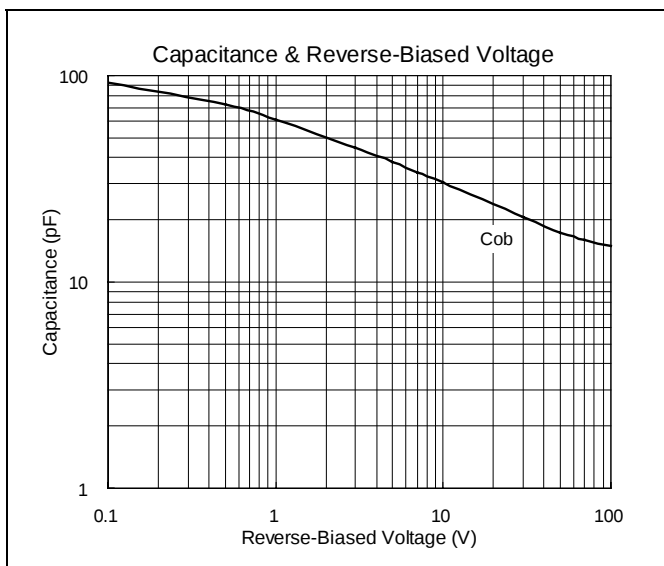
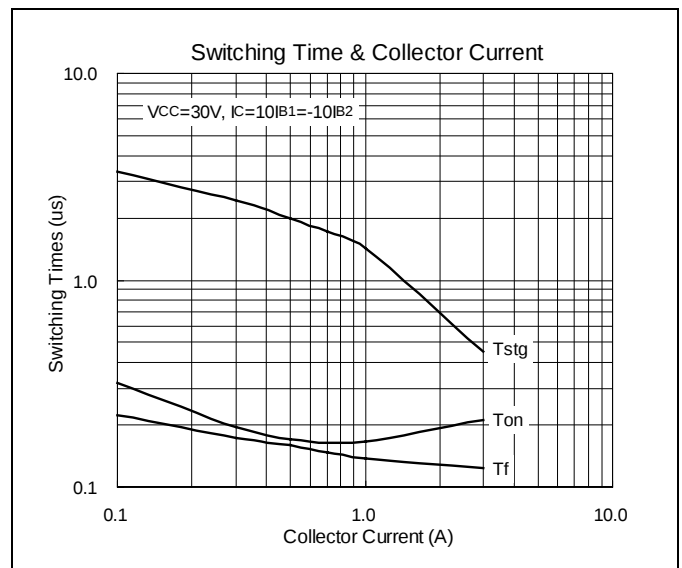
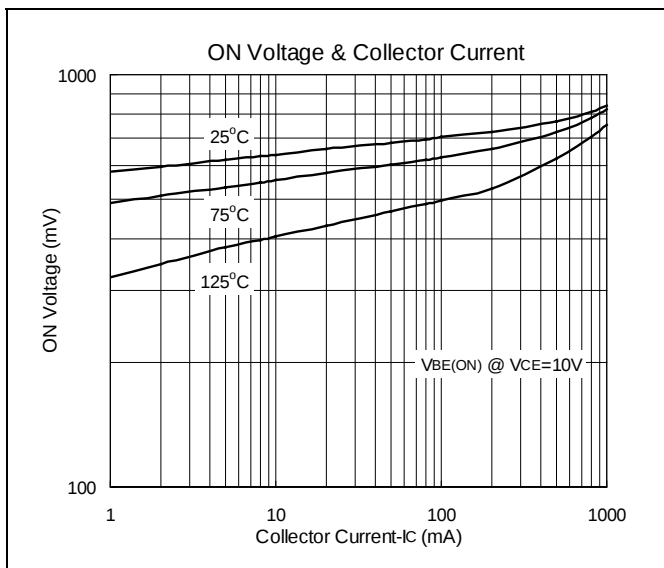
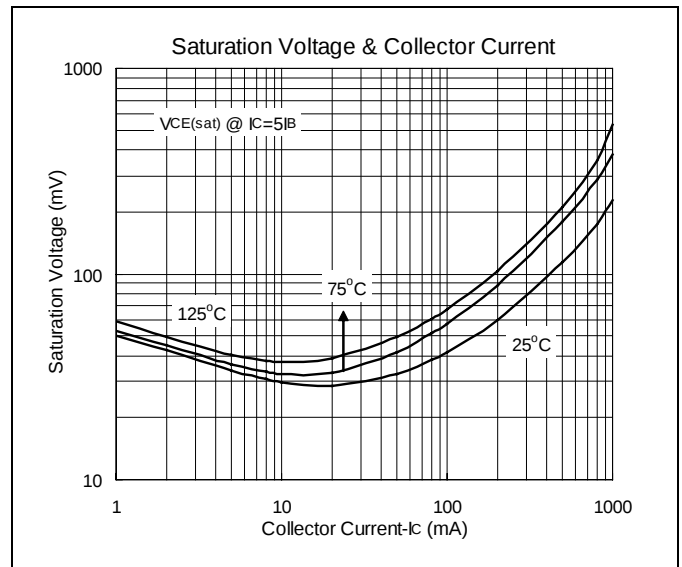
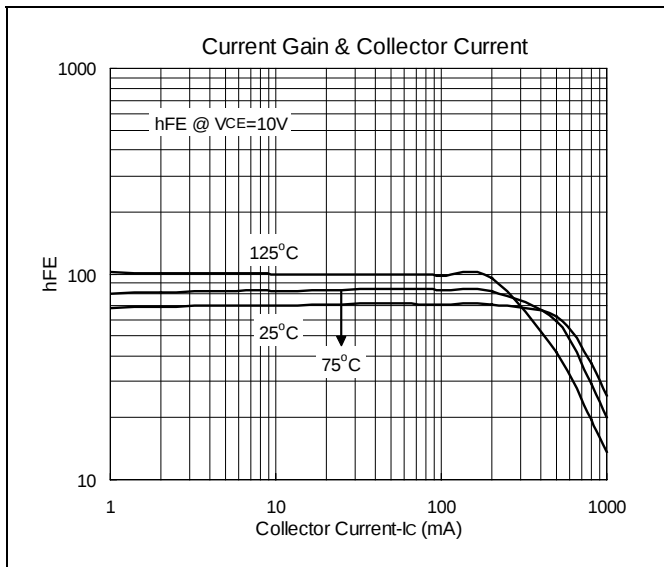
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	500	-	-	V	IC=1mA
BVCEO	400	-	-	V	IC=30mA
BVEBO	5	-	-	V	IC=100uA
ICES	-	-	100	uA	VCE=500V
ICEO	-	-	200	uA	VCE=300V
IEBO	-	-	1	mA	VEB=5V
*VCE(sat)	-	-	1	V	IC=1A, IB=0.2A
*VBE(on)	-	-	1.5	V	VCE=10V, IC=1A
*hFE1	30	-	150		VCE=10V, IC=0.3A
*hFE2	10	-	-		VCE=10V, IC=1A
fT	10	-	-	MHz	VCE=10V, IC=200mA, f=2MHz

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



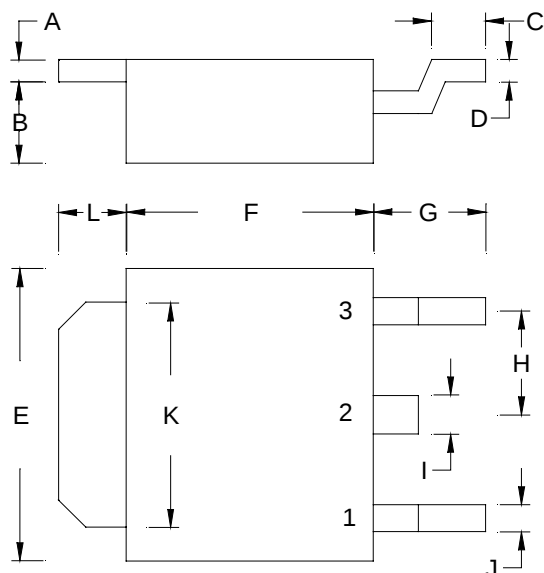


Characteristics Curve



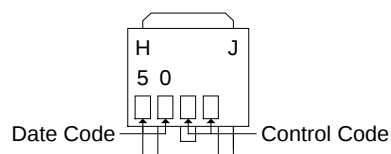


TO-252 Dimension



3-Lead TO-252 Plastic Surface Mount Package
HSMC Package Code: J

Marking:



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

*: 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

Important Notice:

- All rights are reserved. Reproduction in whole or in part is prohibited without the prior written approval of HSMC.
- HSMC reserves the right to make changes to its products without notice.
- **HSMC semiconductor products are not warranted to be suitable for use in Life-Support Applications, or systems.**
- HSMC assumes no liability for any consequence of customer product design, infringement of patents, or application assistance.

Head Office And Factory:

- **Head Office** (Hi-Sincerity Microelectronics Corp.): 10F.,No. 61, Sec. 2, Chung-Shan N. Rd. Taipei Taiwan R.O.C.
Tel: 886-2-25212056 Fax: 886-2-25632712, 25368454
- **Factory 1:** No. 38, Kuang Fu S. Rd., Fu-Kou Hsin-Chu Industrial Park Hsin-Chu Taiwan. R.O.C
Tel: 886-3-5983621~5 Fax: 886-3-5982931