

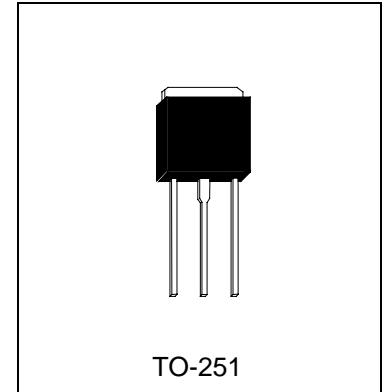


HI50

NPN EPITAXIAL PLANAR TRANSISTOR

Description

The HI50 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) 20 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

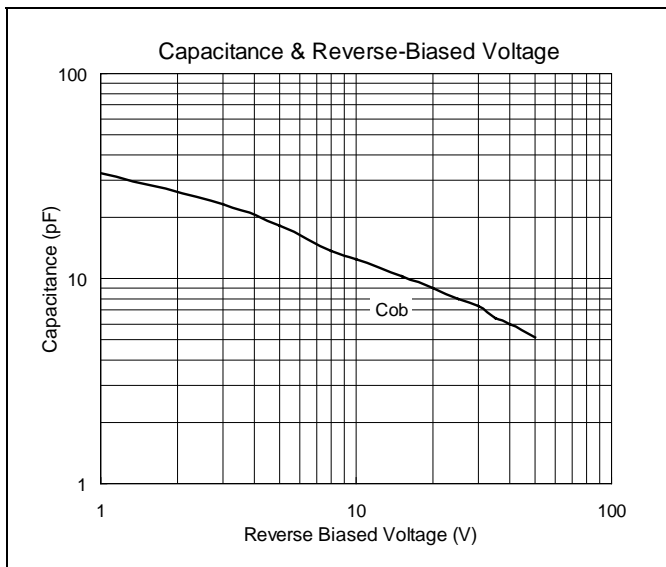
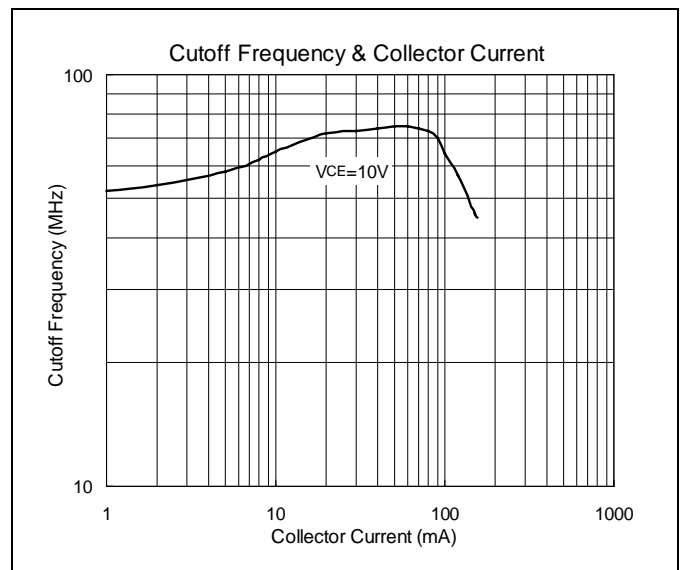
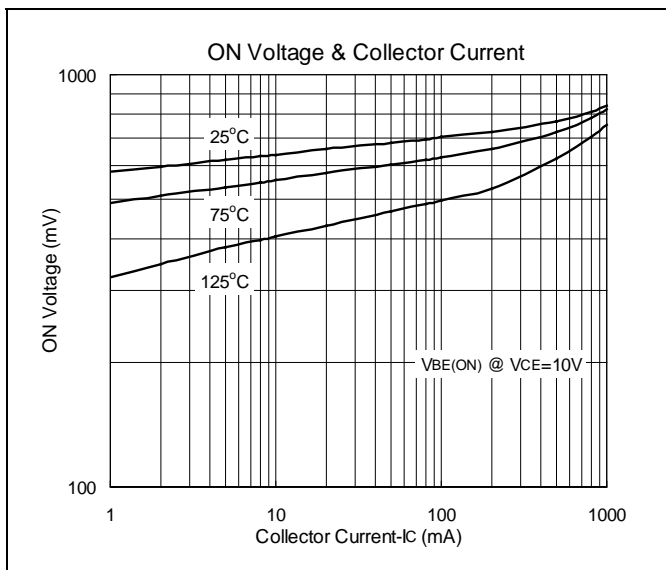
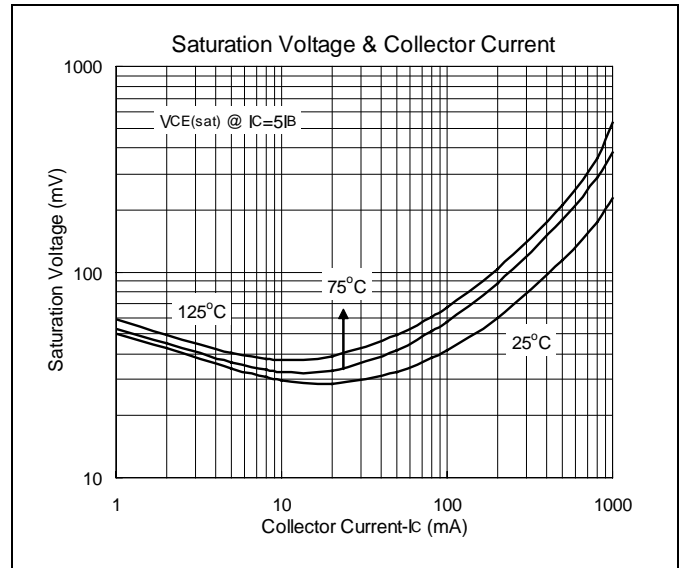
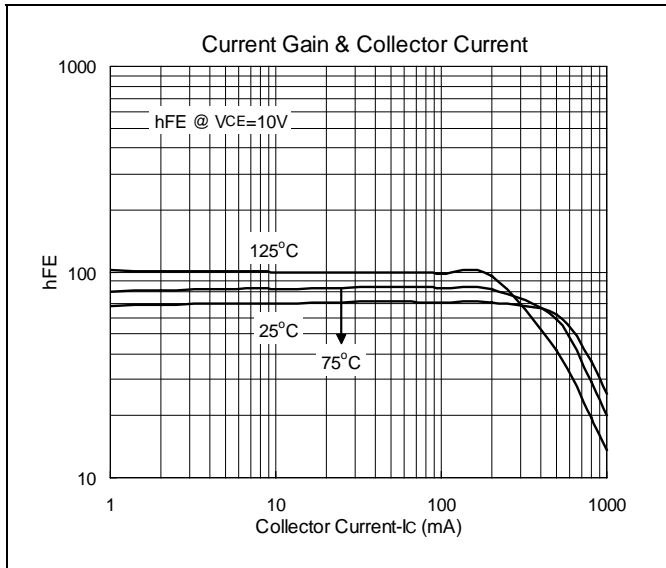
Characteristics (Ta=25°C)

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%

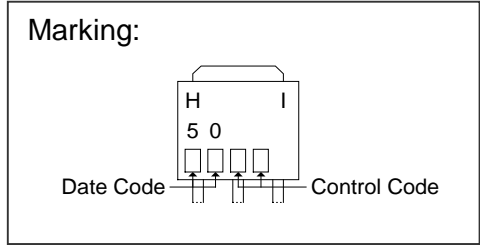
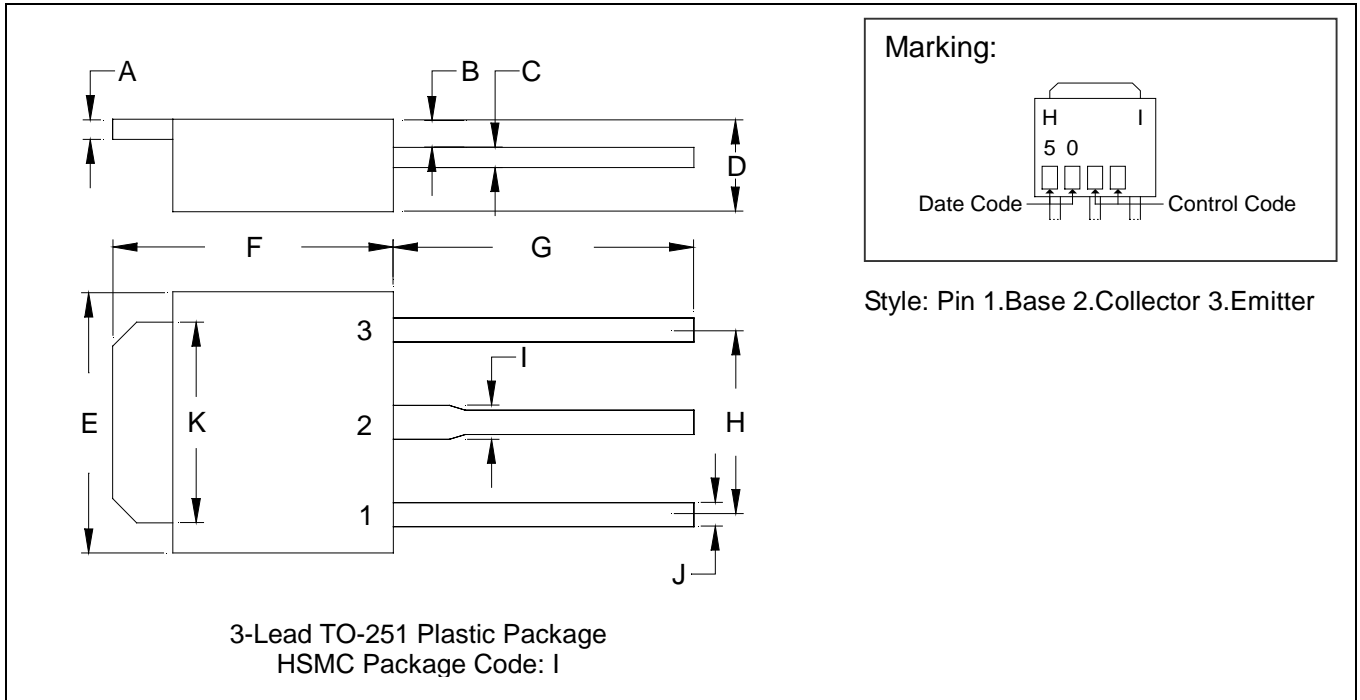


Characteristics Curve





TO-251 Dimension



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	0.2559	-	6.50	-
B	0.0354	0.0591	0.90	1.50	H	-	*0.1811	-	*4.60
C	0.0177	0.0236	0.45	0.60	I	-	0.0354	-	0.90
D	0.0866	0.0945	2.20	2.40	J	-	0.0315	-	0.80
E	0.2520	0.2677	6.40	6.80	K	0.2047	0.2165	5.20	5.50
F	0.2677	0.2835	6.80	7.20					

- Notes: 1.Dimension and tolerance based on our Spec. dated May. 24,1995.
 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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