

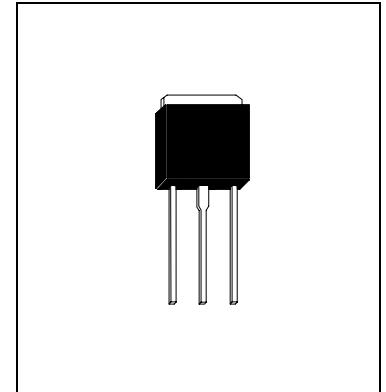


HI210

PNP EPITAXIAL PLANAR TRANSISTOR

Description

The HI210 is designed for low voltage, low-power, high-gain audio amplifier 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) 10 W
- Maximum Voltages and Currents
 - BVCBO Collector to Base Voltage -40 V
 - BVCEO Collector to Emitter Voltage -25 V
 - BVEBO Emitter to Base Voltage -8 V
 - IC Collector Current -5 A
 - IB Base Current -1 A

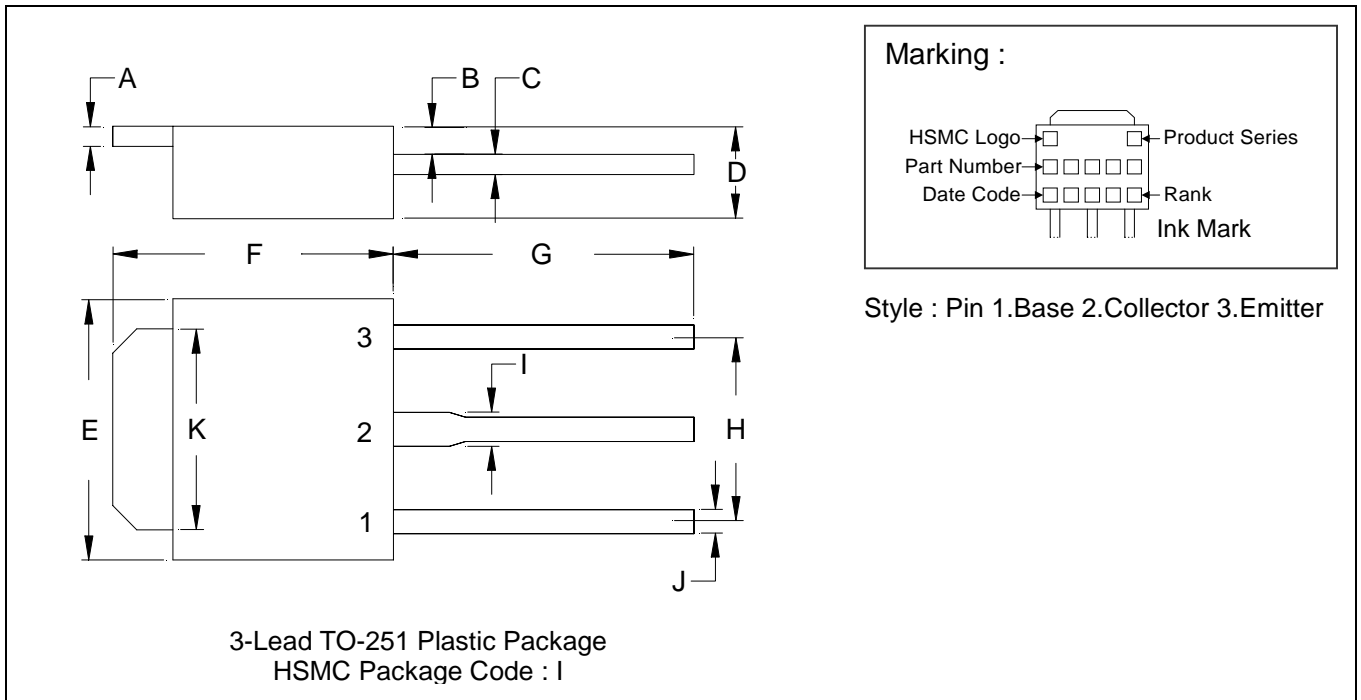
Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-40	-	-	V	IC=-100uA, IE=0
BVCEO	-25	-	-	V	IC=-10mA, IB=0
BVEBO	-8	-	-	V	IE=-100uA, IC=0
ICBO	-	-	-100	nA	VCB=-40V, IE=0
IEBO	-	-	-100	nA	VEB=-8V, IC=0
*VCE(sat)1	-	-	-0.3	V	IC=-500mA, IB=-50mA
*VCE(sat)2	-	-	-0.75	V	IC=-2A, IB=-200mA
*VCE(sat)3	-	-	-1.8	V	IC=-5A, IB=-1A
*VBE(sat)	-	-	-2.5	V	IC=-5A, IB=-0.1A
*VBE(on)	-	-	-1.6	V	VCE=-1V, IC=-2A
*hFE1	70	-	-		VCE=-1V, IC=-500mA
*hFE2	45	-	-		VCE=-1V, IC=-2A
*hFE3	10	-	-		VCE=-2V, IC=-5A
Cob	-	-	120	pF	VCB=-10V, f=1MHz
fT	65	-	-	MHz	VCE=-10V, IC=-100mA, f=100MHz

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



TO-251 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	0.2559	-	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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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
- **Factory 2** : No. 17-1, Ta-Tung Rd., Fu-Kou Hsin-Chu Industrial Park Hsin-Chu Taiwan. R.O.C
 Tel : 886-3-5977061 Fax : 886-3-5979220