



HI123

NPN EPITAXIAL PLANAR TRANSISTOR

Description

The HI123 is designed for high voltage, high speed switching Circuits, and amplifier applications.

Features

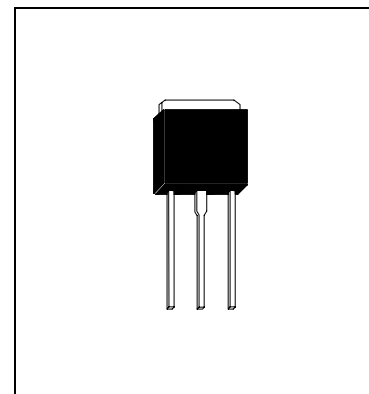
- High speed switching.
- Low saturation voltage.
- High reliability.

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 8 V
IC Collector Current 500 mA

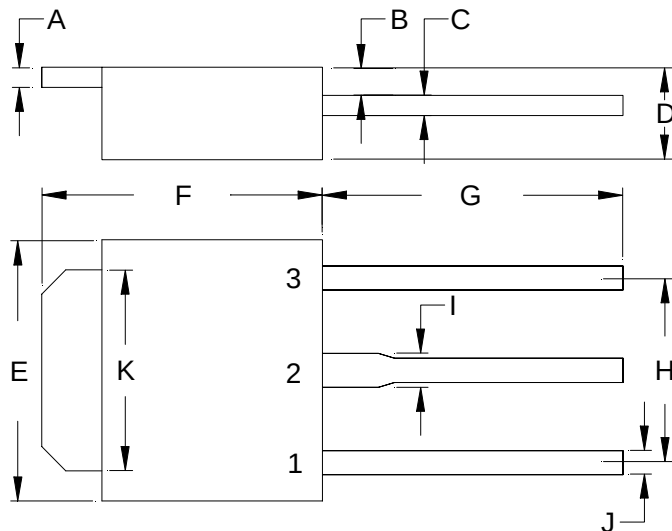
Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	500	-	-	V	IC=1mA
BVCEO	400	-	-	V	IC=10mA
ICBO	-	-	10	uA	VCB=500V
IEBO	-	-	10	uA	VEB=9V
VCE(sat)1	-	-	0.3	V	IC=0.1A, IB=10mA
VCE(sat)2	-	-	0.9	V	IC=0.3A, IB=30mA
VBE(sat)1	-	-	0.9	V	IC=0.1A, IB=10mA
VBE(sat)2	-	-	1.8	V	IC=0.3A, IB=30mA
hFE1	20	-	65		VCE=5V, IC=0.3mA
hFE2	12	-	-		VCE=5V, IC=0.5mA
hFE3	6	-	-		VCE=5V, IC=1A



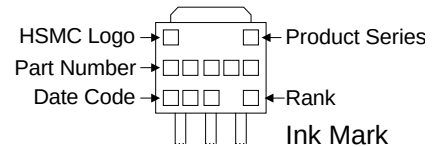


TO-251 Dimension



3-Lead TO-251 Plastic Package
HSMC Package Code : I

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	0.2559	-	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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