

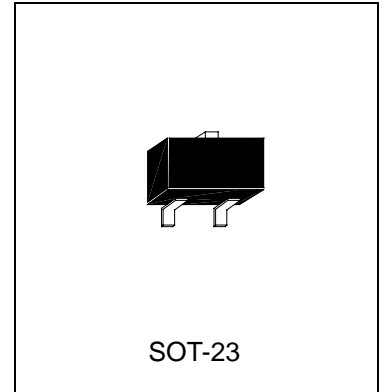


HMBT4125

PNP EPITAXIAL PLANAR TRANSISTOR

Description

The HMBT4125 is designed for general purpose switching and amplifier applications.



Absolute Maximum Ratings

- Maximum Temperatures
 Storage Temperature -65 ~ +150 °C
 Junction Temperature +150 °C
- Maximum Power Dissipation
 Total Power Dissipation (Ta=25°C) 225 mW
- Maximum Voltages and Currents (Ta=25°C)
 VCBO Collector to Base Voltage -30 V
 VCEO Collector to Emitter Voltage -30 V
 VEBO Emitter to Base Voltage -4.0 V
 IC Collector Current -200 mA

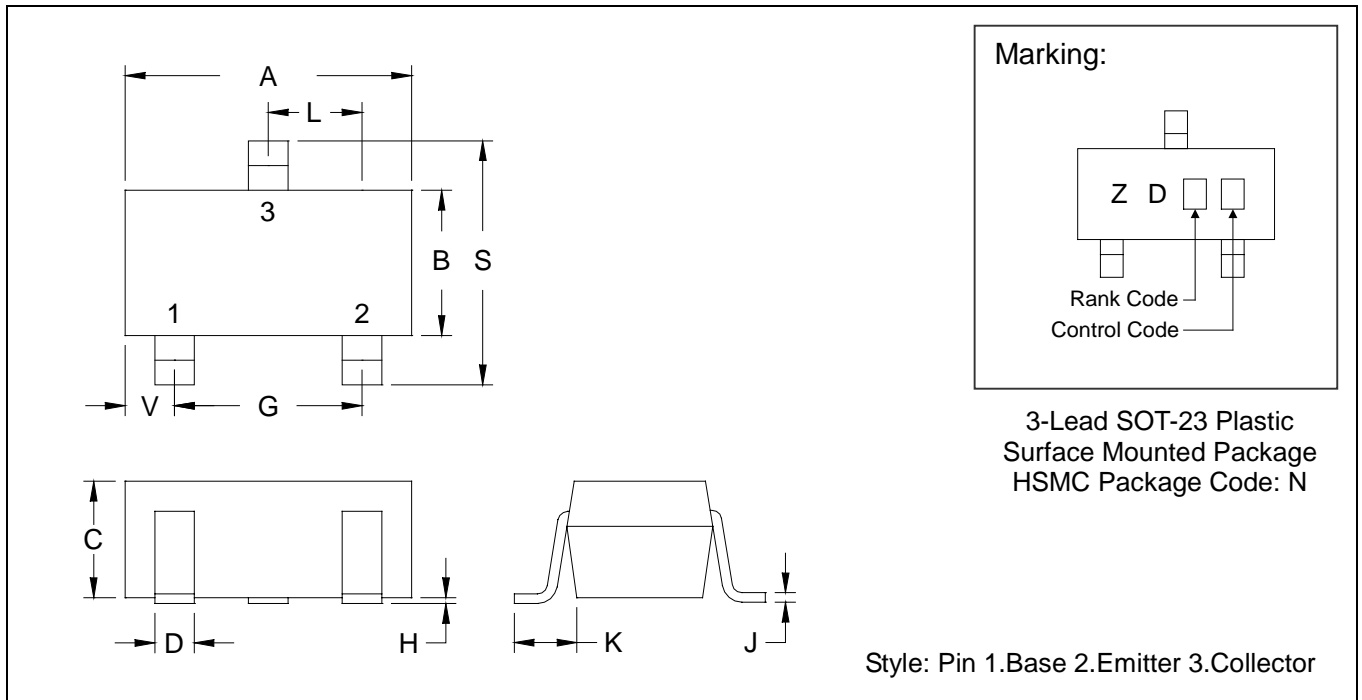
Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-30	-	-	V	IC=-10uA
BVCEO	-30	-	-	V	IC=-1mA
BVEBO	-4	-	-	V	IE=-10uA
ICBO	-	-	-50	nA	VCB=-20V
IEBO	-	-	-50	nA	VBE=-3V
*VCE(sat)	-	-	-0.4	V	IC=-50mA, IB=-5mA
*VBE(sat)	-	-	-950	mV	IC=-50mA, IB=-5mA
*hFE1	50	-	150		VCE=-1V, IC=-2mA
*hFE2	25	-	-		VCE=-1V, IC=-50mA
fT	200	-	-	MHz	VCE=-20V, IC=-10mA, f=100MHz
Cob	-	-	4.5	pF	VCB=-5V, f=1MHz

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



SOT-23 Dimension



*: Typical

DIM	Inches		Millimeters		DIM	Inches		Millimeters	
	Min.	Max.	Min.	Max.		Min.	Max.	Min.	Max.
A	0.1102	0.1204	2.80	3.04	J	0.0034	0.0070	0.085	0.177
B	0.0472	0.0630	1.20	1.60	K	0.0128	0.0266	0.32	0.67
C	0.0335	0.0512	0.89	1.30	L	0.0335	0.0453	0.85	1.15
D	0.0118	0.0197	0.30	0.50	S	0.0830	0.1083	2.10	2.75
G	0.0669	0.0910	1.70	2.30	V	0.0098	0.0256	0.25	0.65
H	0.0005	0.0040	0.013	0.10					

- Notes: 1.Dimension and tolerance based on our Spec. dated Sep. 07,1997.
 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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