



HMBT6520

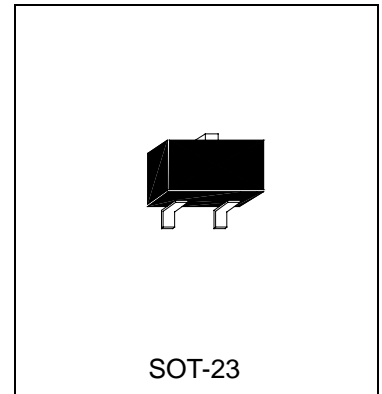
PNP EPITAXIAL PLANAR TRANSISTOR

Description

The HMBT6520 is designed for general purpose applications requiring high breakdown voltages.

Features

- High Collector-Emitter Breakdown Voltage
- Low Collector-Emitter Saturation Voltage
- The HMBT6520 is complementary to HMBT6517



Absolute Maximum Ratings

- Maximum Temperatures
Storage Temperature..... -55 ~ +150 °C
Junction Temperature..... +150 °C Maximum
- Maximum Power Dissipation
Total Power Dissipation (Ta=25°C)..... 225 mW
- Maximum Voltages and Currents (Ta=25°C)
VCBO Collector to Base Voltage -350 V
VCEO Collector to Emitter Voltage -350 V
VEBO Emitter to Base Voltage -5 V
IC Collector Current -500 mA
IB Base Current -250 mA

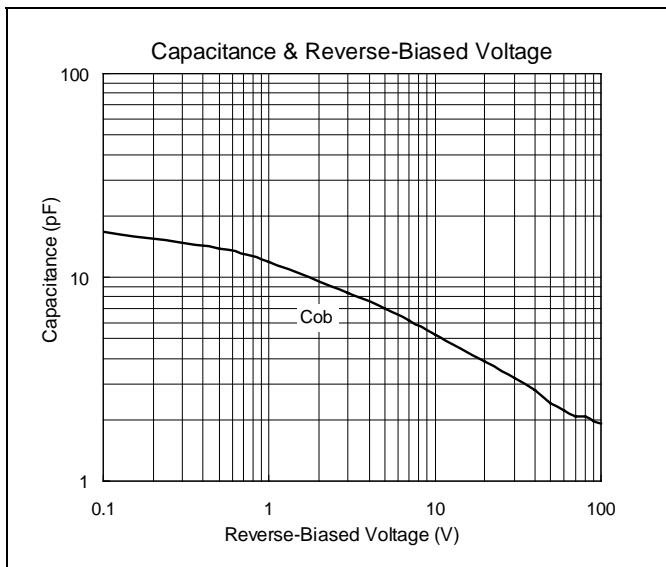
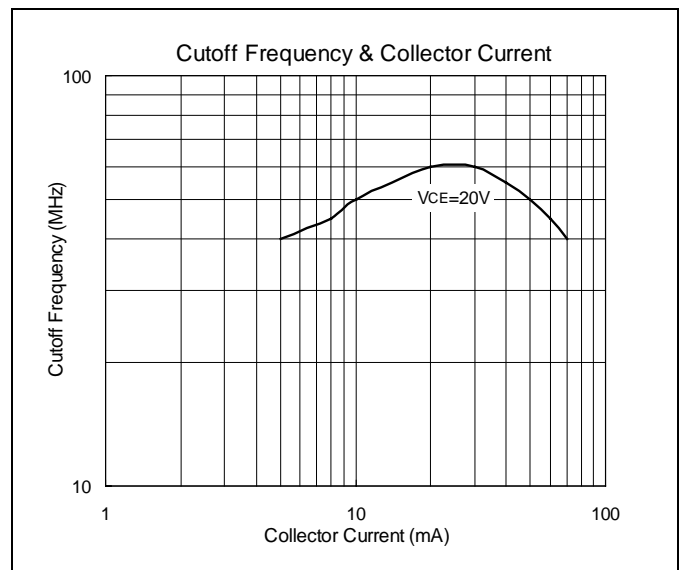
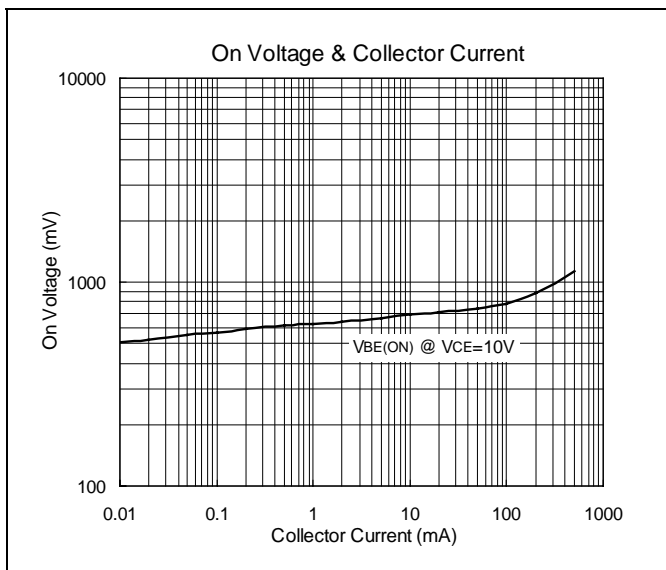
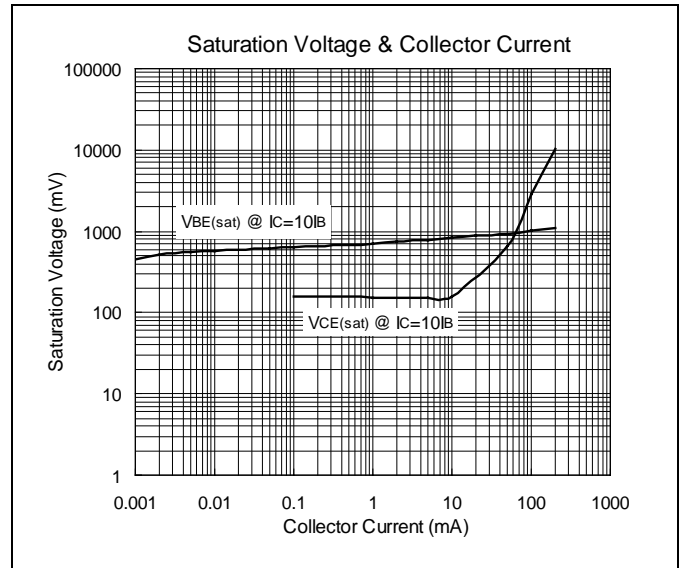
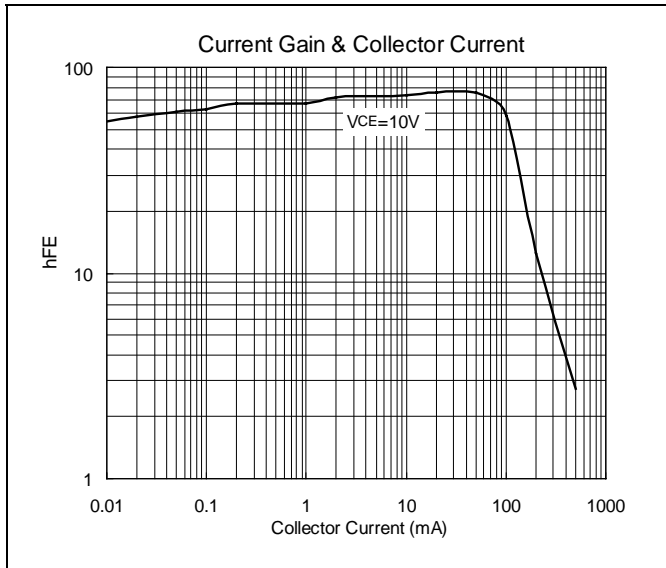
Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-350	-	-	V	IC=-100uA
BVCEO	-350	-	-	V	IC=-1mA
BVEBO	-5	-	-	V	IE=-10uA
ICBO	-	-	-50	nA	VCB=-250V
IEBO	-	-	-50	nA	VEB=-4V
*VCE(sat)1	-	-	-300	mV	IC=-10mA, IB=-1mA
*VCE(sat)2	-	-	-350	mV	IC=-20mA, IB=-2mA
*VCE(sat)3	-	-	-500	mV	IC=-30mA, IB=-3mA
*VCE(sat)4	-	-	-1	V	IC=-50mA, IB=-5mA
VBE(on)	-	-	-2	V	VCE=-10V, IC=-100mA
*VBE(sat)1	-	-	-750	mV	IB=-1mA, IC=-10mA
*VBE(sat)2	-	-	-850	mV	IB=-2mA, IC=-20mA
*VBE(sat)3	-	-	-900	mV	IB=-3mA, IC=-30mA
*hFE1	20	-	-		VCE=-10V, IC=-1mA
*hFE2	30	-	-		VCE=-10V, IC=-10mA
*hFE3	30	-	200		VCE=-10V, IC=-30mA
*hFE4	20	-	200		VCE=-10V, IC=-50mA
*HFE5	15	-	-		VCE=-10V, IC=-100mA
fT	40	-	200	MHz	VCE=-20V, IC=-10mA, f=20MHz
Cob	-	-	6	pF	VCB=-20V, f=1MHz

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

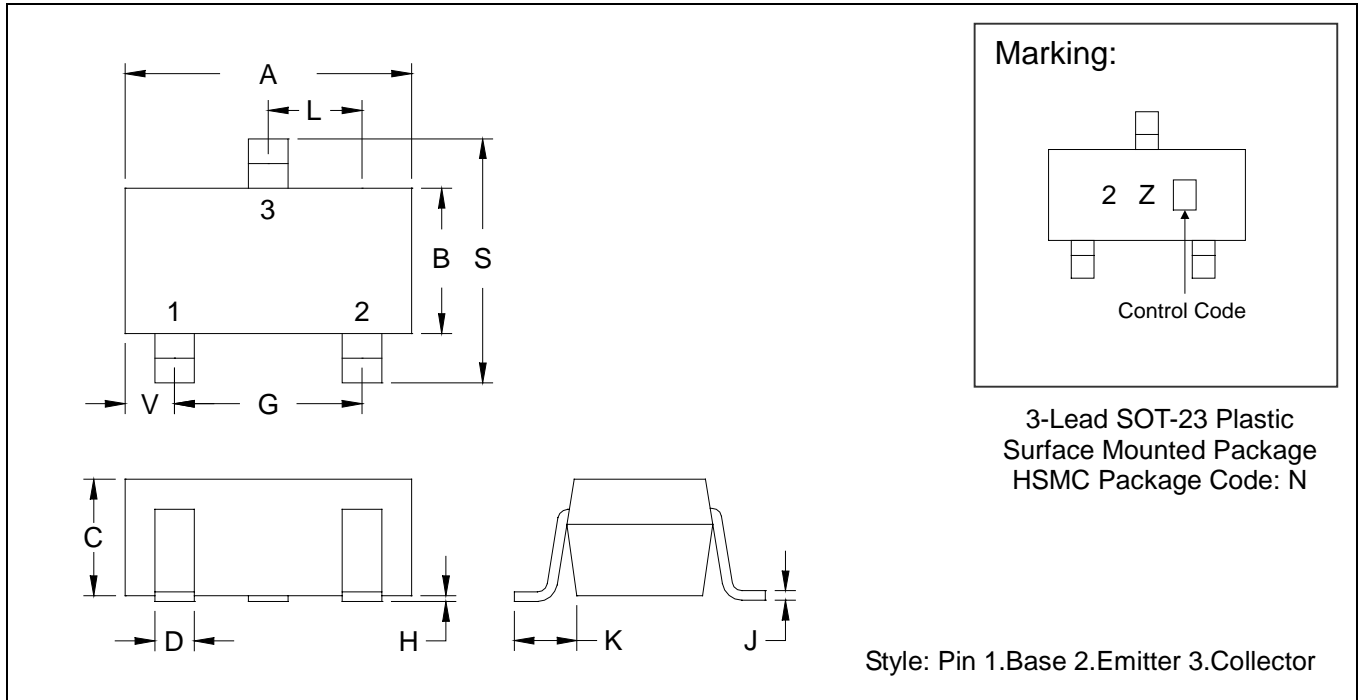


Characteristics Curve





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

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



LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.