



HBU407

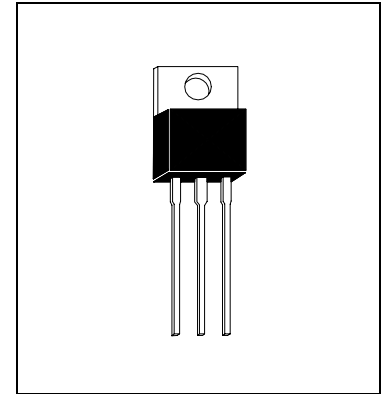
NPN EPITAXIAL PLANAR TRANSISTOR

Description

The HBU407 is designed for use in TV Horizontal output and Switching applications.

Features

- High Breakdown Voltage



Absolute Maximum Ratings (Ta=25°C)

- Maximum Temperatures
 Storage Temperature -50 ~ +150 °C
 Junction Temperature 150 °C Maximum
- Maximum Power Dissipation
 Total Power Dissipation (Tc=25°C) 60 W
- Maximum Voltages and Currents (Ta=25°C)
 VCEO Collector to Emitter Voltage 150 V
 VEBO Emitter to Base Voltage 6 V
 IC Collector Current 7 A
 IB Base Current 4 A

Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
*BVCEO	150	-	-	V	IC=100mA, IB=0
ICES	-	-	5	mA	VCE=400V
IEBO	-	-	1	mA	VEB=6V, IC=0
*VCE(sat)	-	-	1	V	IC=5A, IB=0.5A
*VBE(sat)	-	-	1.2	V	IC=5A, IB=0.5A
*hFE1	25	-	-		IC=500mA, VCE=5V
*hFE2	35	-	200		IC=2A, VCE=5V
*hFE3	10	-	-		IC=5A, VCE=5V
FT	10	-	-	MHz	IC=500mA, VCE=10V, f=1MHz

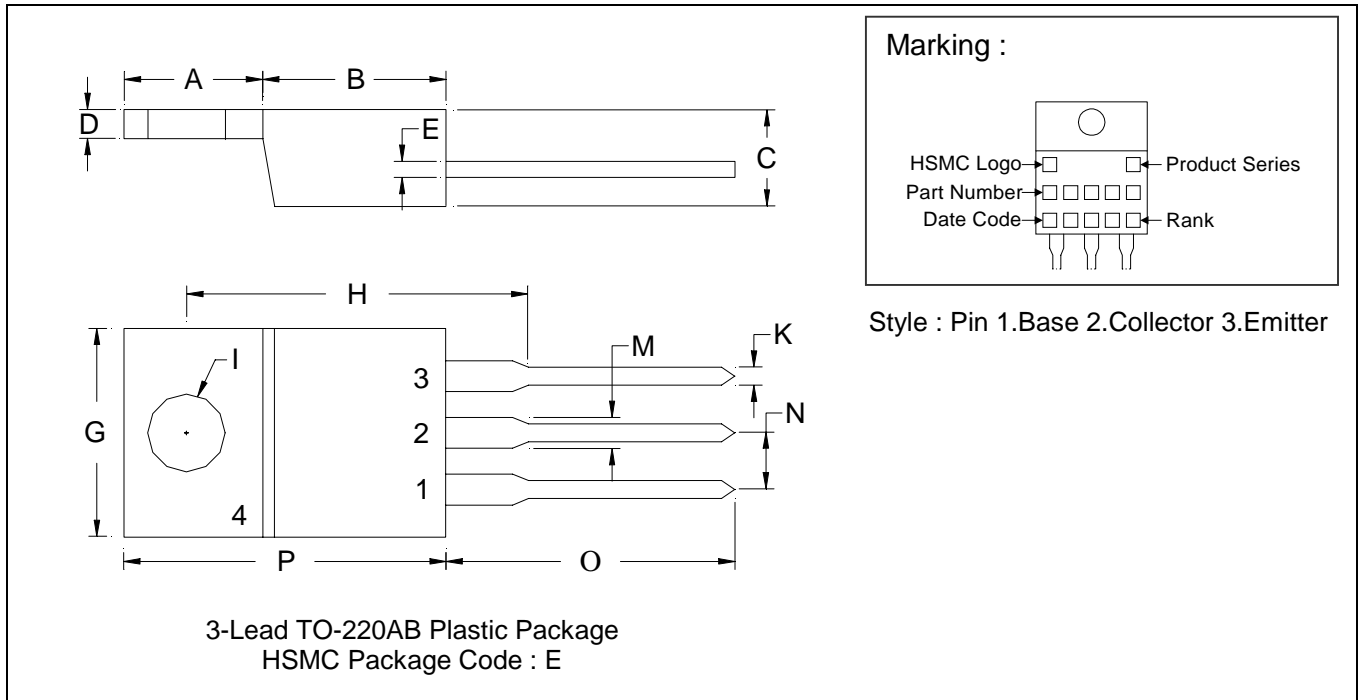
*Pulse Test : Pulse Width ≤380us, Duty Cycle≤2%

Classification Of hFE2

Rank	B	C	D
Range	35-85	75-125	115-200



TO-220AB Dimension



*:Typical

DIM	Inches		Millimeters		DIM	Inches		Millimeters	
	Min.	Max.	Min.	Max.		Min.	Max.	Min.	Max.
A	0.2197	0.2949	5.58	7.49	I	-	*0.1508	-	*3.83
B	0.3299	0.3504	8.38	8.90	K	0.0295	0.0374	0.75	0.95
C	0.1732	0.185	4.40	4.70	M	0.0449	0.0551	1.14	1.40
D	0.0453	0.0547	1.15	1.39	N	-	*0.1000	-	*2.54
E	0.0138	0.0236	0.35	0.60	O	0.5000	0.5618	12.70	14.27
G	0.3803	0.4047	9.66	10.28	P	0.5701	0.6248	14.48	15.87
H	-	*0.6398	-	*16.25					

- 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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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