

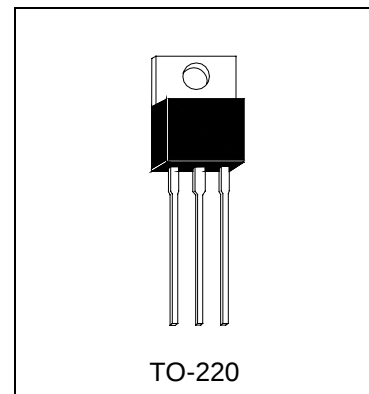


HTIP42C

PNP EPITAXIAL PLANAR TRANSISTOR

Description

The HTIP42C is designed for use in general purpose amplifier and switching applications.



Absolute Maximum Ratings (Ta=25°C)

- Maximum Temperatures
Storage Temperature -55 ~ +150 °C
Junction Temperature +150 °C Maximum
- Maximum Power Dissipation
Total Power Dissipation (Tc=25°C) 65 W
Total Power Dissipation (Ta=25°C) 2 W
- Maximum Voltages and Currents
BVCBO Collector to Base Voltage -100 V
BVCEO Collector to Emitter Voltage -100 V
BVEBO Emitter to Base Voltage -5 V
IC Collector Current -6 A

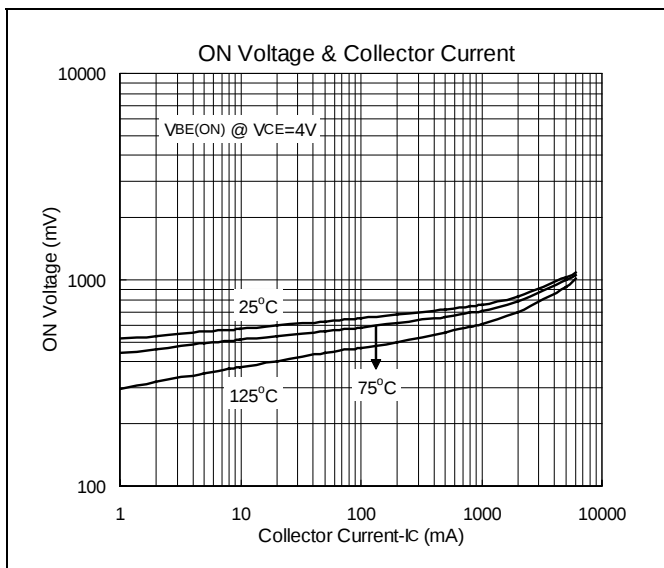
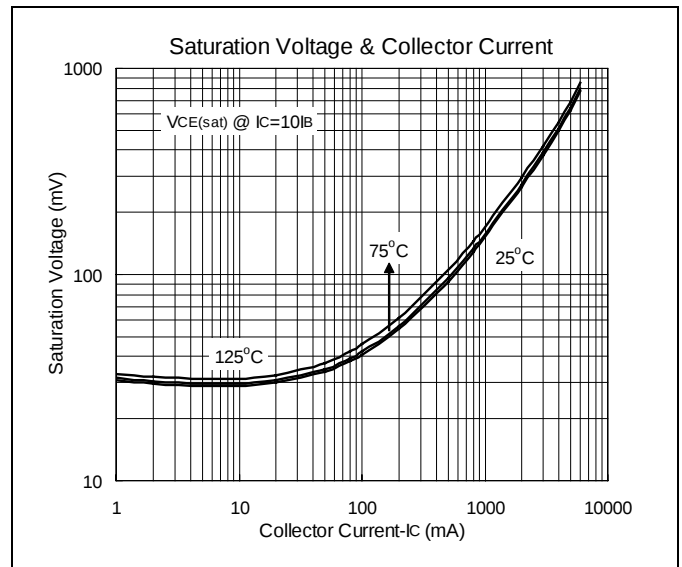
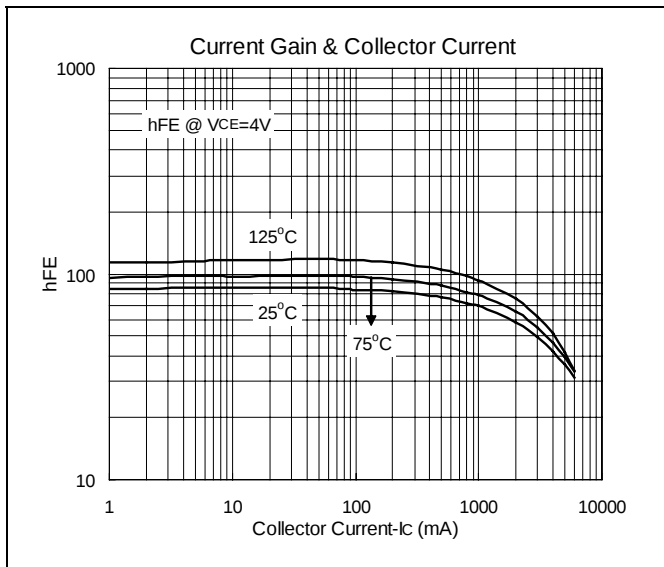
Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-100	-	-	V	IC=-1mA, IE=0
BVCEO	-100	-	-	V	IC=-30mA, IB=0
ICES	-	-	-400	uA	VCE=-100V
ICEO	-	-	-700	uA	VCE=-60V
IEBO	-	-	-1	mA	VEB=-5V
*VCE(sat)	-	-	-1.5	V	IC=-6A, IB=-600mA
*VBE(on)	-	-	-2	V	IC=-6A, VCE=-4V
*hFE1	30	-	-		IC=-0.3A, VCE=-4V
*hFE2	15	-	75		IC=-3A, VCE=-4V
fT	3	-	-	MHz	IC=-0.1A, VCE=-5V, f=1MHz

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

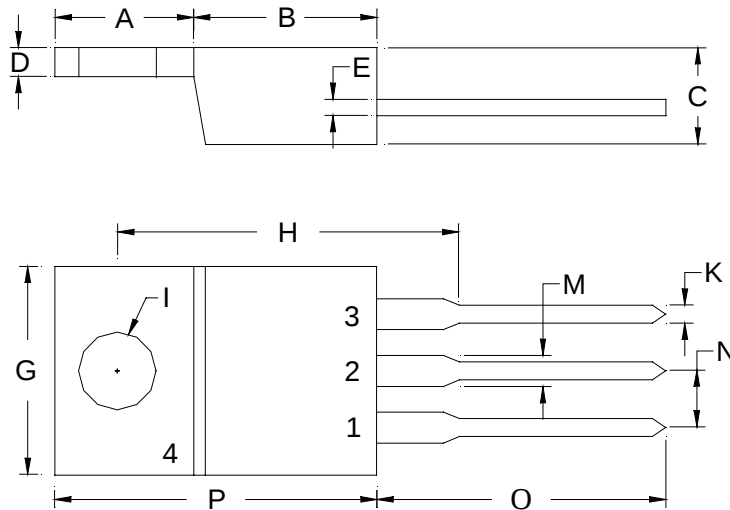


Characteristics Curve



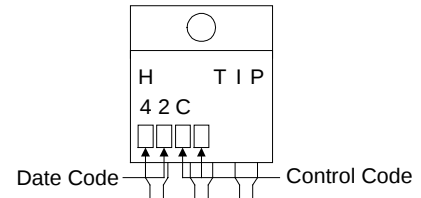


TO-220AB Dimension



3-Lead TO-220AB Plastic Package
HSMC Package Code: E

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	0.2197	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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