

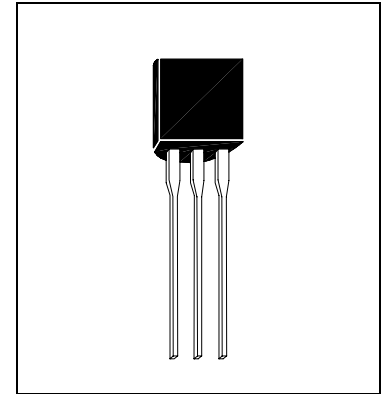


H2N3417

NPN SILICON TRANSISTOR

Description

The H2N3417 is a silicon NPN planar epitaxial transistor designed for small signal general purpose and switching applications.



Absolute Maximum Ratings

- Maximum Temperatures
 - Storage Temperature..... -55 ~ +150 °C
 - Junction Temperature..... +150 °C Maximum
- Maximum Power Dissipation
 - Total Power Dissipation (Ta=25°C) 625 mW
- Maximum Voltages and Currents (Ta=25°C)
 - VCBO Collector to Base Voltage 50 V
 - VCEO Collector to Emitter Voltage 50 V
 - VEBO Emitter to Base Voltage 5 V
 - IC Collector Current 500 mA

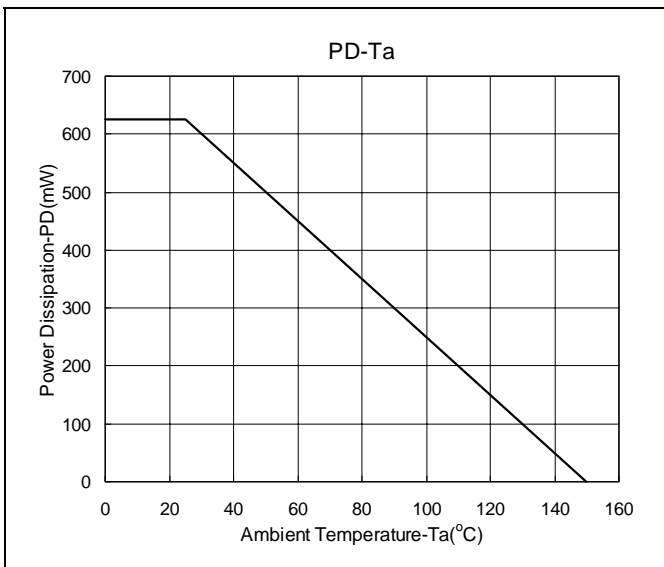
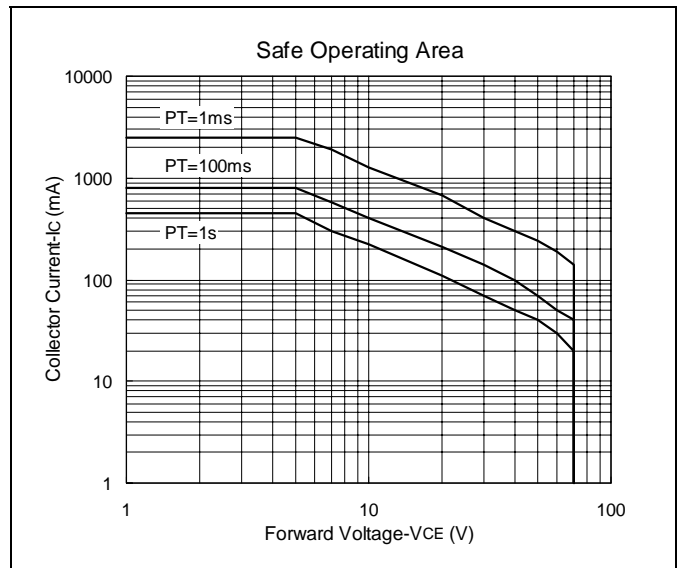
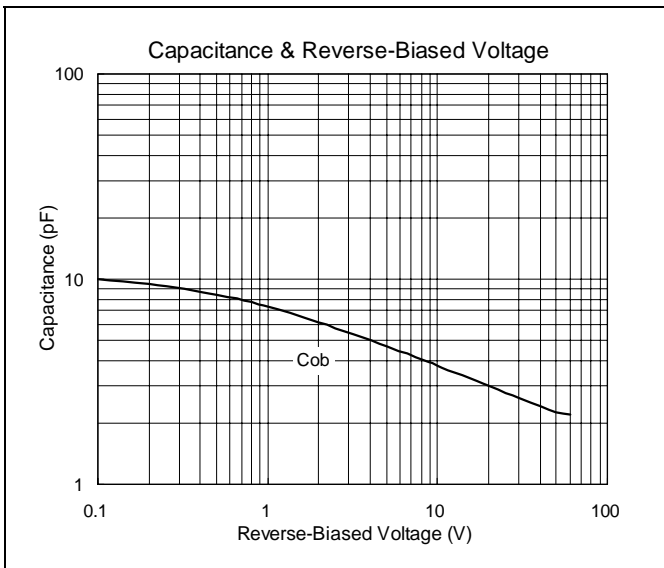
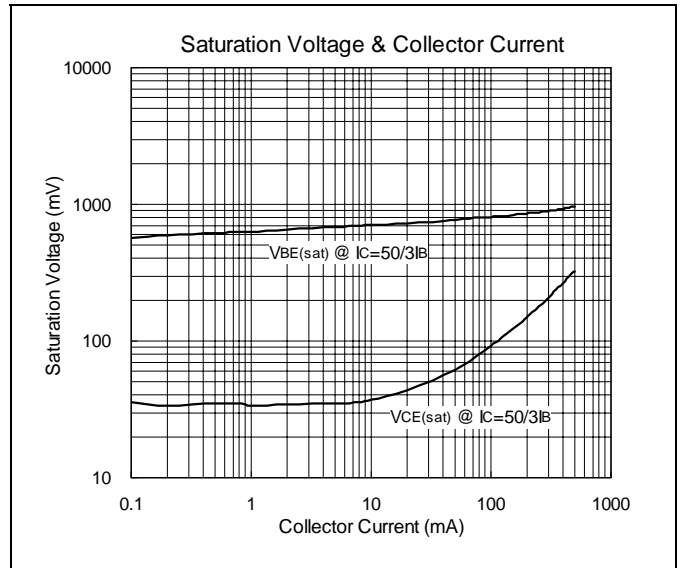
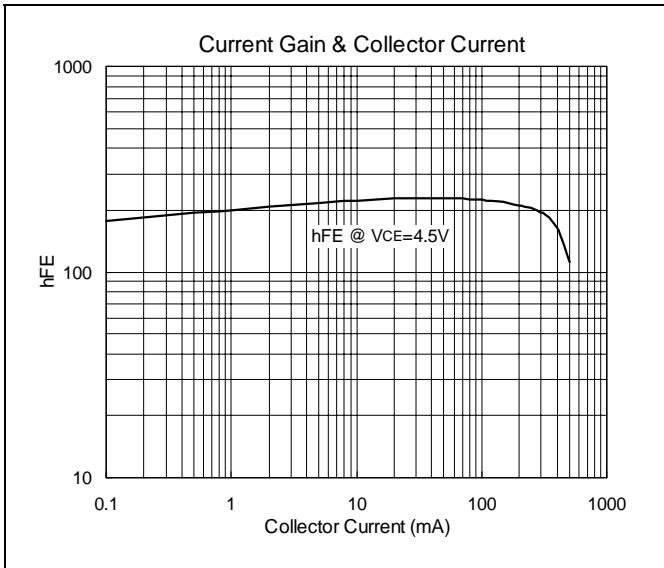
Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	50	-	-	V	IC=100uA, IE=0
BVCEO	50	-	-	V	IC=1mA, IB=0
BVEBO	5	-	-	V	IE=10uA, IC=0
ICBO	-	-	100	nA	VCB=50V, IE=0
IEBO	-	-	100	nA	VEB=5V, IC=0
*VCE(sat)	-	-	300	mV	IB=3mA, IC=50mA
*VBE(sat)	-	-	850	mV	IB=3mA, IC=50mA
*hFE	180	-	540	-	VCE=4.5V, IC=2mA

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



Characteristics Curve





TO-92 Dimension

3-Lead TO-92 Plastic Package
HSMC Package Code : A

Marking :

HSMC Logo → □ □ □ □ ← Product Series
 Part Number → □ □ □ □ □ □
 Date Code → □ □ □ □ □ □ ← Rank
Laser Mark

HSMC Logo
 Product Series
 Part Number → □ □ □ □ □ □
Ink Mark

Style : Pin 1. Emitter 2. Base 3. Collector

*:Typical

DIM	Inches		Millimeters		DIM	Inches		Millimeters	
	Min.	Max.	Min.	Max.		Min.	Max.	Min.	Max.
A	0.1704	0.1902	4.33	4.83	G	0.0142	0.0220	0.36	0.56
B	0.1704	0.1902	4.33	4.83	H	-	*0.1000	-	*2.54
C	0.5000	-	12.70	-	I	-	*0.0500	-	*1.27
D	0.0142	0.0220	0.36	0.56	α1	-	*5°	-	*5°
E	-	*0.0500	-	*1.27	α2	-	*2°	-	*2°
F	0.1323	0.1480	3.36	3.76	α3	-	*2°	-	*2°

Notes : 1.Dimension and tolerance based on our Spec. dated Apr. 25,1996.
 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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