

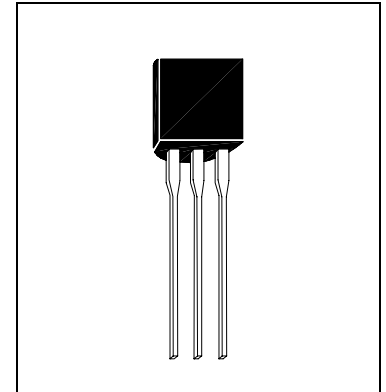


H2N6427

NPN EPITAXIAL PLANAR TRANSISTOR

Description

Darlington Transistor



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 40 V
 VCES Collector to Emitter Voltage..... 40 V
 VEBO Emitter to Base Voltage 12 V
 IC Collector Current 500 mA

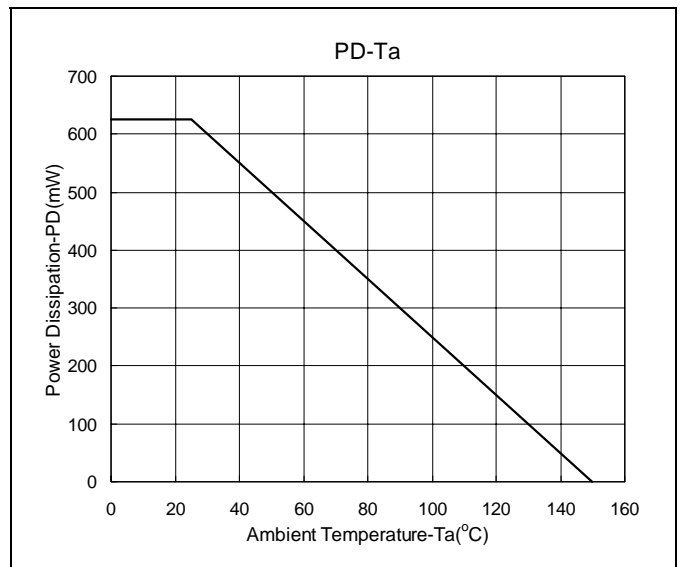
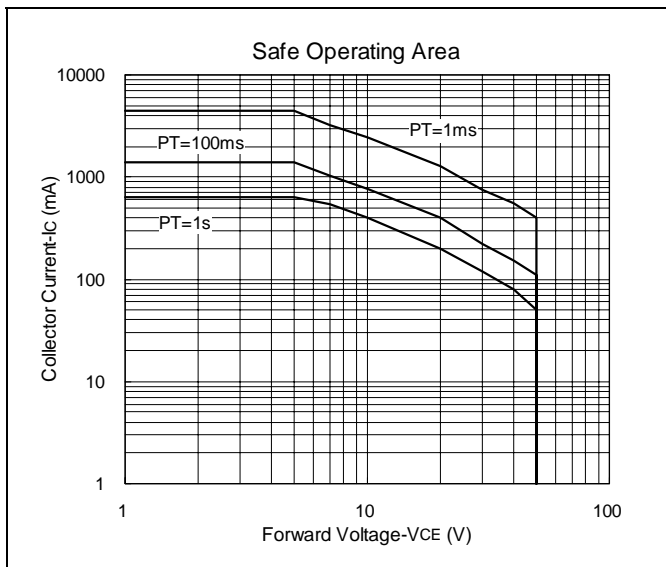
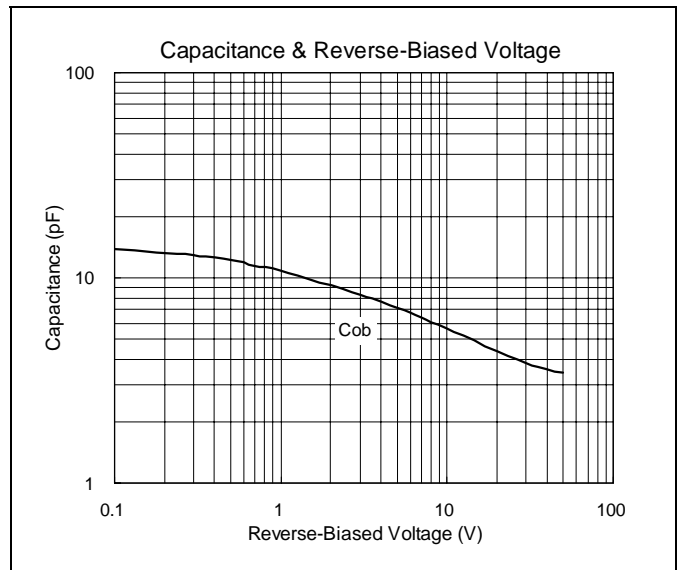
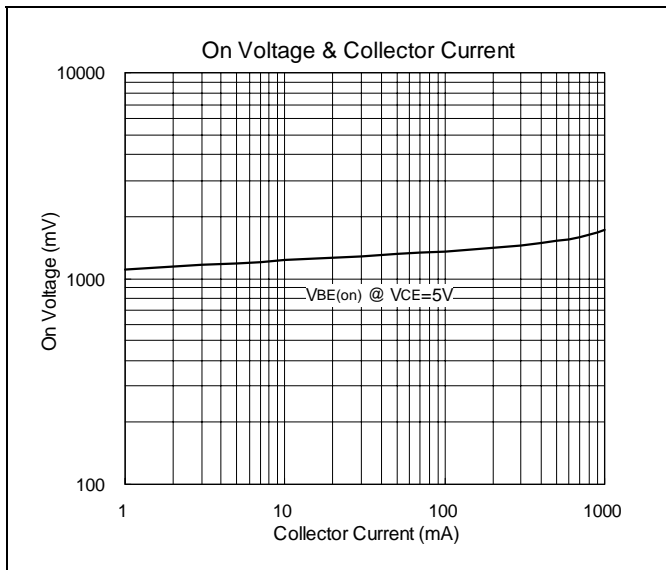
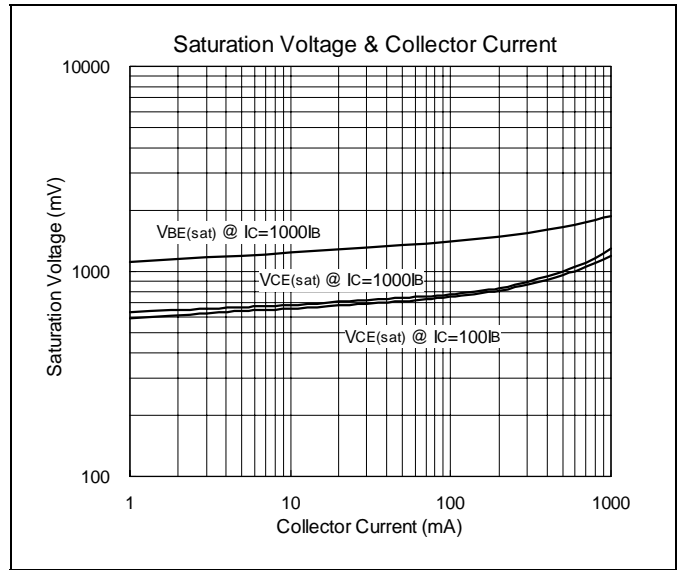
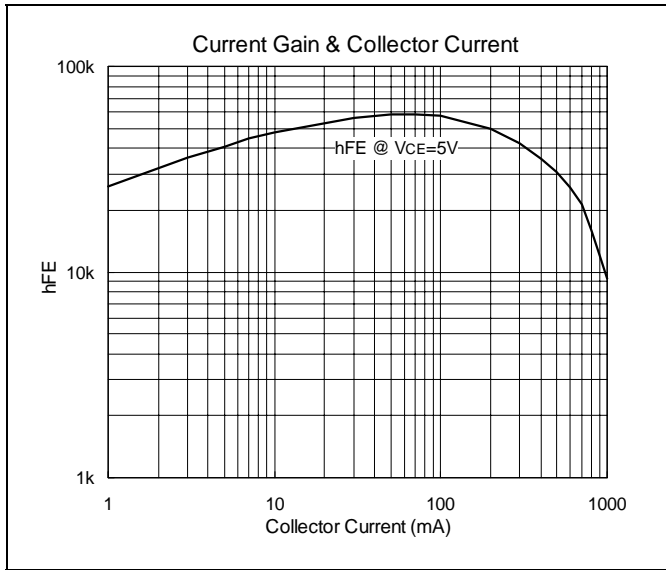
Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	40	-	-	V	IC=100uA, IE=0
BVCES	40	-	-	V	IC=10uA, IB=0
BVEBO	12	-	-	V	IE=10uA, IC=0
ICBO	-	-	50	nA	VCB=30V, IE=0
IEBO	-	-	50	nA	VEB=10V, IC=0
ICES	-	-	1	uA	VCE=25V, VBE=0
*VCE(sat)1	-	0.71	1.2	V	IC=50mA, IB=0.5mA
*VCE(sat)2	-	0.9	1.5	V	IC=500mA, IB=0.5mA
*VBE(sat)	-	1.52	2.0	V	IC=500mA, IB=0.5mA,
VBE(on)	-	1.24	1.75	V	VCE=5V, IC=50mA
*hFE1	10	-	100	K	VCE=5V, IC=10mA
*hFE2	20	-	200	K	VCE=5V, IC=100mA
*hFE3	14	-	140	K	VCE=5V, IC=500mA
Cob	-	5.4	7	pF	VCB=10V, f=1MHz

*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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