

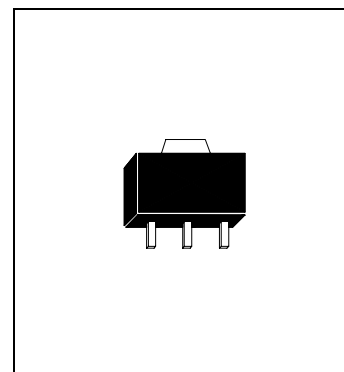


HM27

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) 1 W
- Maximum Voltages and Currents (Ta=25°C)
 - VCBO Collector to Base Voltage 60 V
 - VCES Collector to Emitter Voltage 60 V
 - VEBO Emitter to Base Voltage 10 V
 - IC Collector Current 500 mA

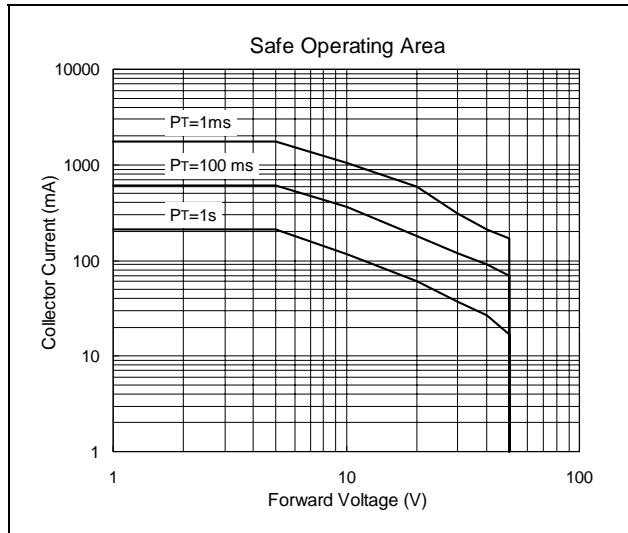
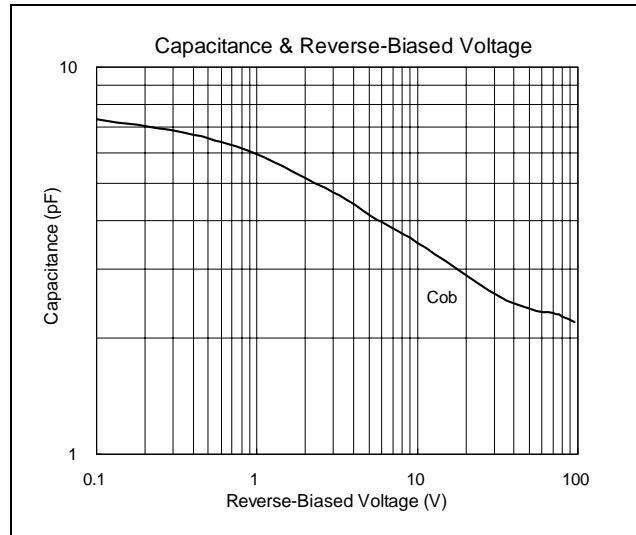
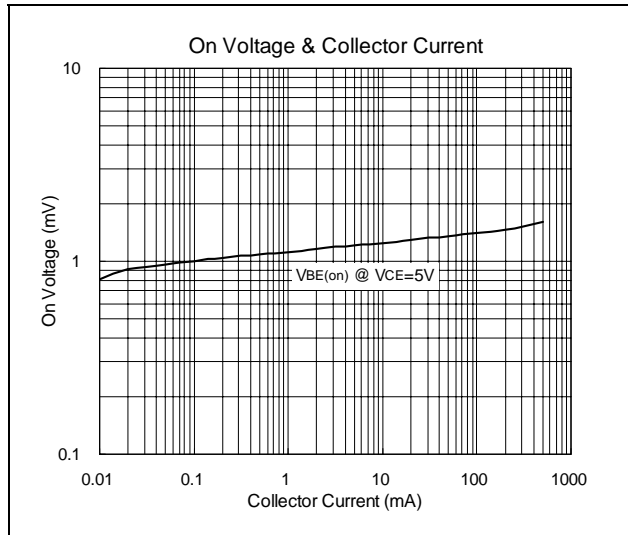
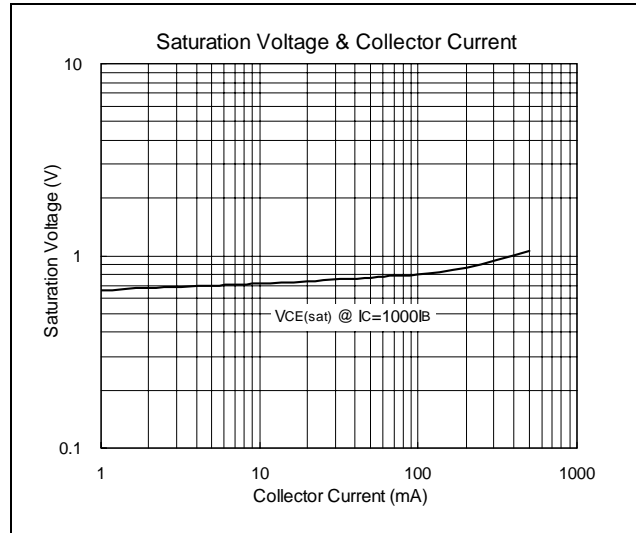
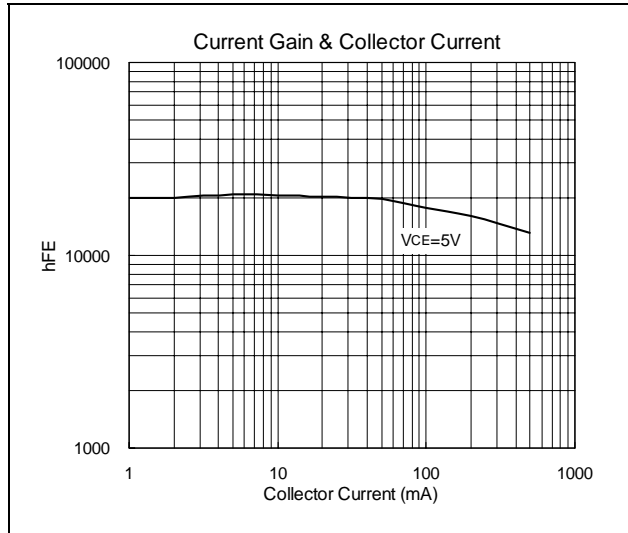
Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	60	-	-	V	IC=100uA
BVCES	60	-	-	V	IC=100uA
BVEBO	10	-	-	V	IE=10uA
ICBO	-	-	100	nA	VCB=50V
IEBO	-	-	100	nA	VBE=10V
ICES	-	-	500	nA	VCE=50V
*VCE(sat)	-	-	1.5	V	IC=100mA, IB=0.1mA
VBE(on)	-	-	2	V	VCE=5V, IC=100mA
*hFE1	10K	-	-		VCE=5V, IC=10mA
*hFE2	10K	-	-		VCE=5V, IC=100mA

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

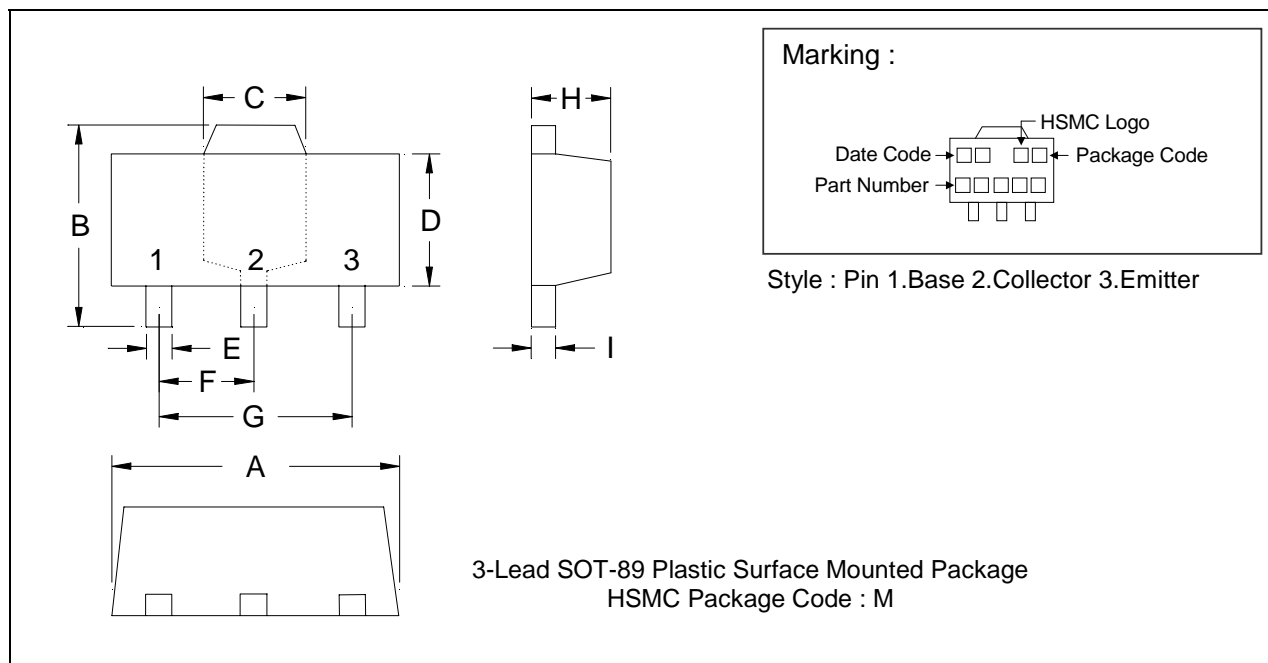


Characteristics Curve





SOT-89 Dimension



*:Typical

DIM	Inches		Millimeters		DIM	Inches		Millimeters	
	Min.	Max.	Min.	Max.		Min.	Max.	Min.	Max.
A	0.1732	0.1811	4.40	4.60	F	0.0583	0.0598	1.48	1.52
B	0.1594	0.1673	4.05	4.25	G	0.1165	0.1197	2.96	3.04
C	0.0591	0.0663	1.50	1.70	H	0.0551	0.0630	1.40	1.60
D	0.0945	0.1024	2.40	2.60	I	0.0138	0.0161	0.35	0.41
E	0.0141	0.0201	0.36	0.51					

- Notes :**
- 1.Dimension and tolerance based on our Spec. dated May. 05,1996.
 - 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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