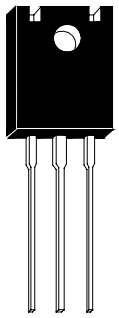
HMJE13003D

NPN EPITAXIAL PLANAR TRANSISTOR



TO-126ML

Description

- High Voltage, High Speed Power Switch
- Switch Regulators
- PWM Inverters and Motor Controls
- Solenoid and Relay Drivers
- Deflection Circuits

Absolute Maximum Ratings (Ta=25°C)

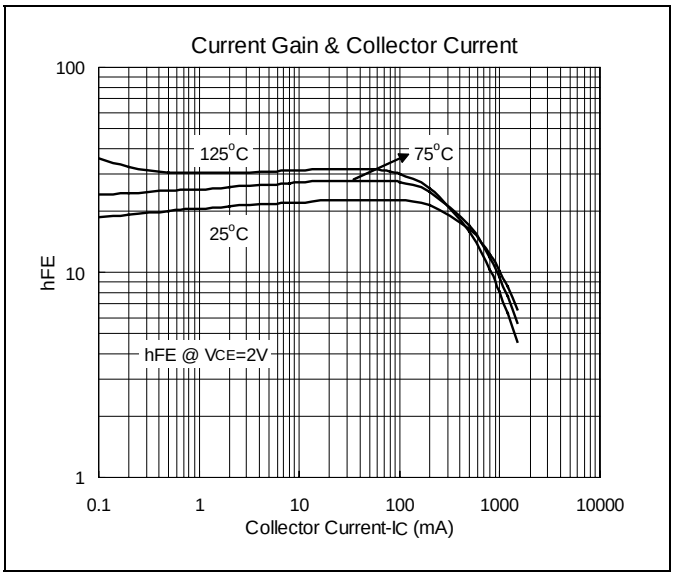
- Maximum Temperatures
  Storage Temperature ..... -50 ~ +150 °C
  Junction Temperature ..... 150 °C Maximum
- Maximum Power Dissipation
  Total Power Dissipation (Tc=25°C) ..... 40 W
- Maximum Voltages and Currents (Ta=25°C)
  VCEX Collector to Emitter Voltage ..... 700 V
  VCEO Collector to Emitter Voltage ..... 400 V
  VEBO Emitter to Base Voltage ..... 9 V
  IC Collector Current ..... Continuous 1.5 A
  IB Base Current ..... Continuous 0.75 A

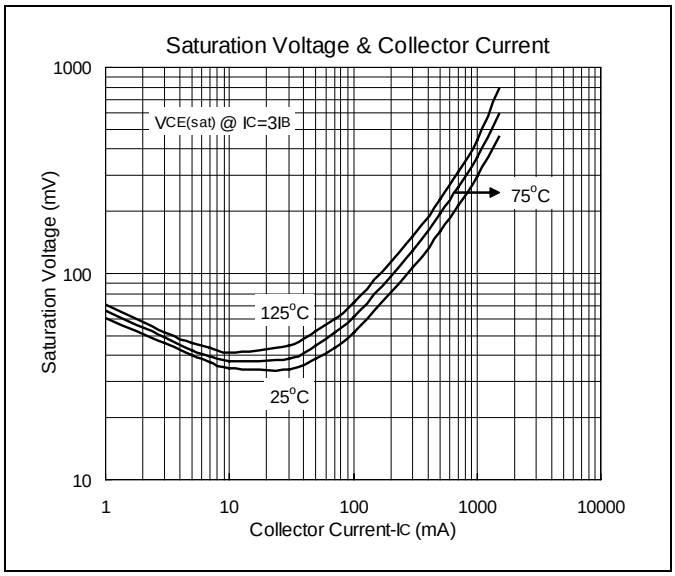
Characteristics (Ta=25°C)

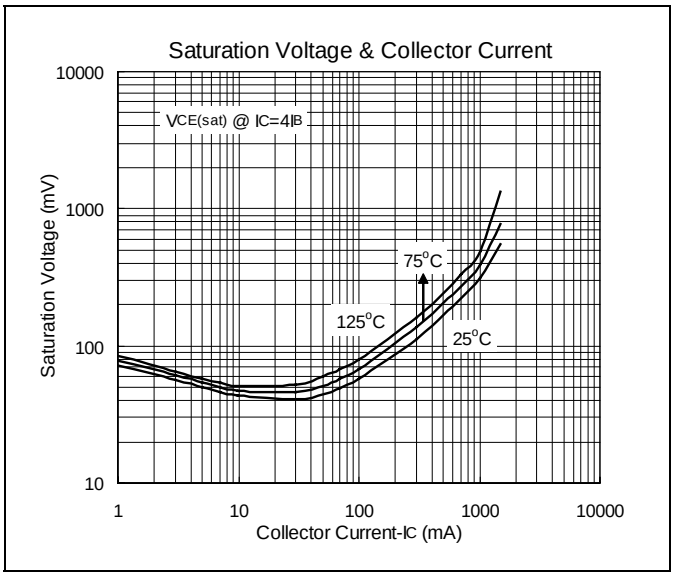
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCEX	700	-	-	V	IC=1mA, VBE(off)=1.5V
BVCEO	400	-	-	V	IC=10mA
IEBO	-	-	1	mA	VEB=9V
ICEX	-	-	1	mA	VCE=700V, VBE(off)=1.5V
*VCE(sat)1	-	-	500	mV	IC=0.5A, IB=0.1A
*VCE(sat)2	-	-	1	V	IC=1A, IB=0.25A
*VCE(sat)3	-	-	3	V	IC=1.5A, IB=0.5A
*VBE(sat)	-	-	1	V	IC=0.5A, IB=0.1A
*VBE(sat)	-	-	1.2	V	IC=1A, IB=0.25A
*hFE1	8	-	40		IC=0.5A, VCE=2V
*hFE2	5	-	25		IC=1A, VCE=2V

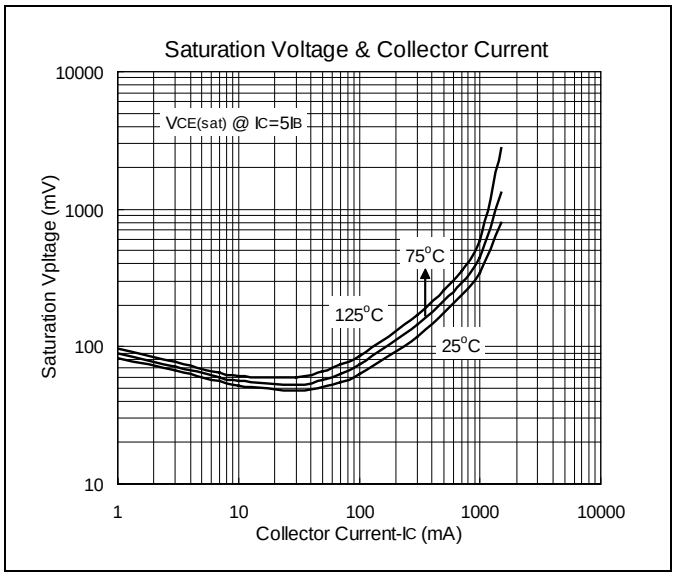
*Pulse Test: Pulse Width ≤380us, Duty Cycle≤2%

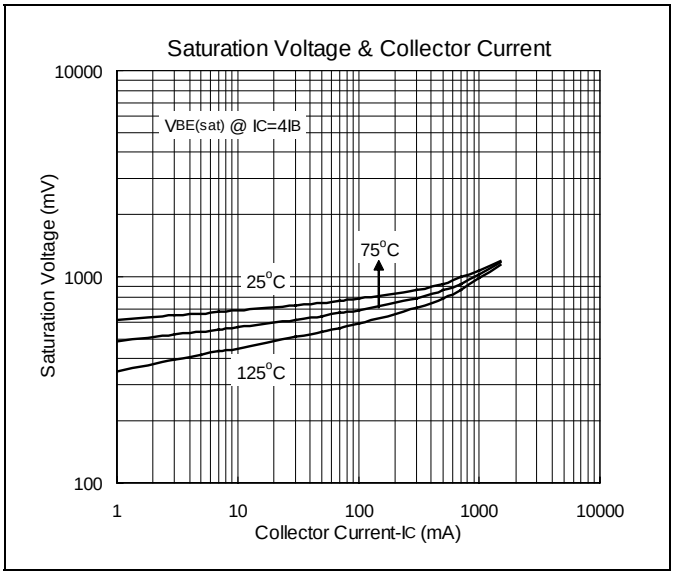
Characteristics Curve

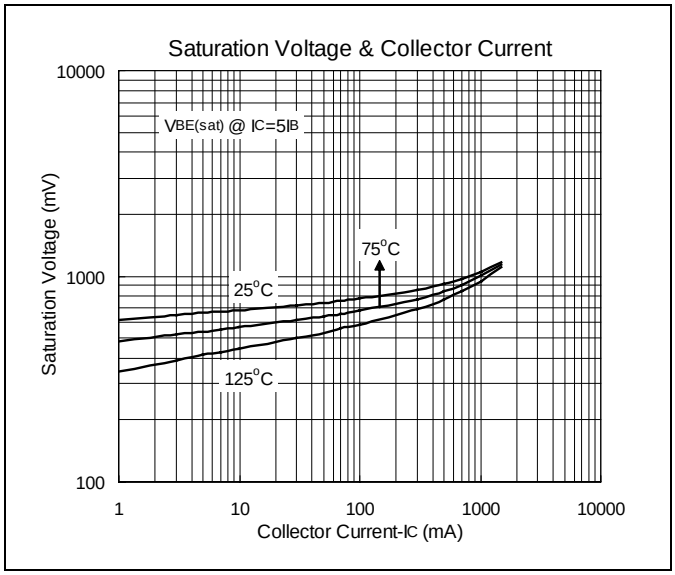




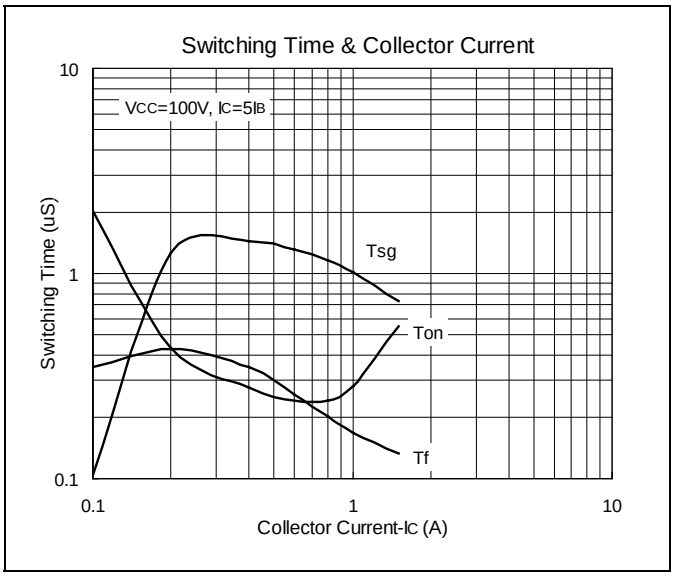


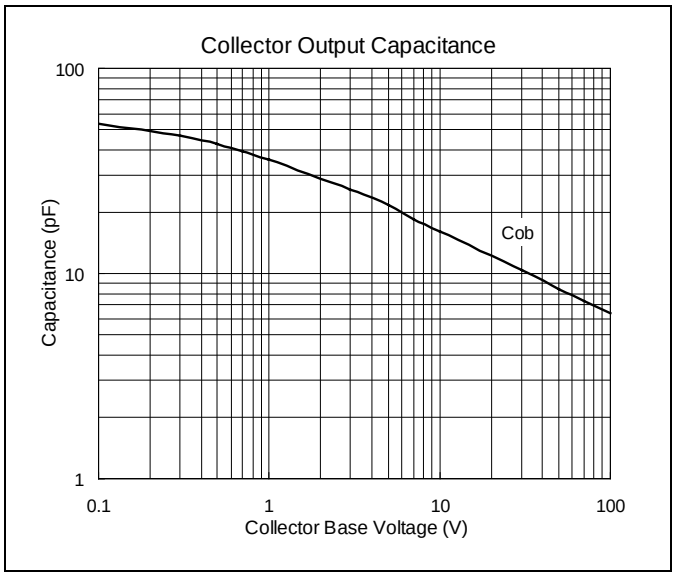


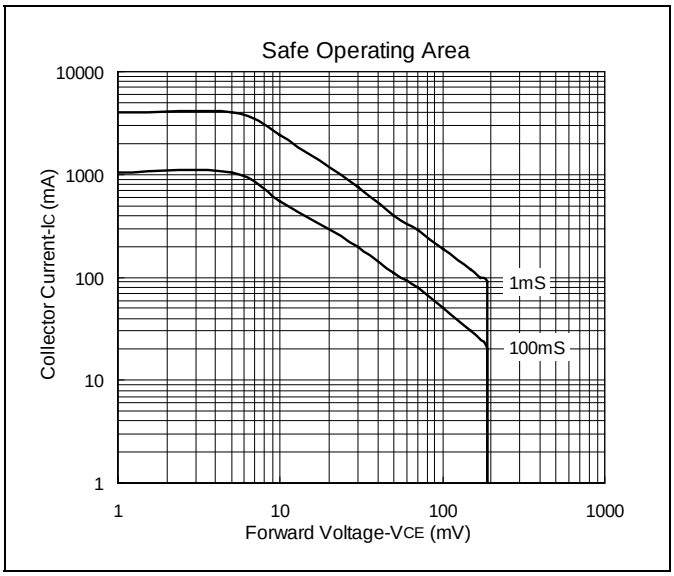




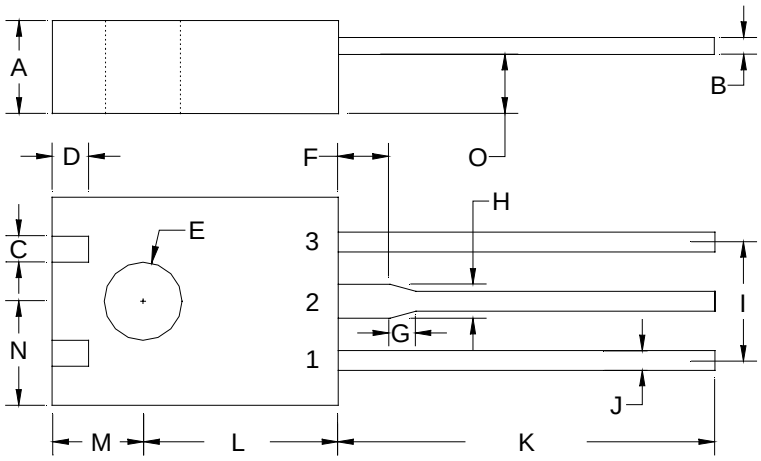
Characteristics Curve



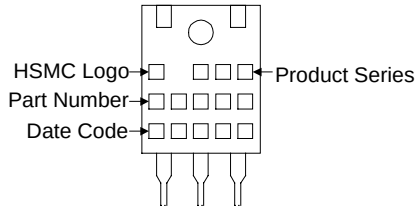




TO-126ML Dimension



Marking:



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

3-Lead TO-126ML Plastic Package
HSMC Package Code: D

*: Typical

DIM	Inches		Millimeters		DIM	Inches		Millimeters	
	Min.	Max.	Min.	Max.		Min.	Max.	Min.	Max.
A	0.1356	0.1457	3.44	3.70	I	-	*0.1795	-	*4.56
B	0.0170	0.0272	0.43	0.69	J	0.0268	0.0331	0.68	0.84
C	0.0344	0.0444	0.87	1.12	K	0.5512	0.5906	14.00	15.00
D	0.0501	0.0601	1.27	1.52	L	0.2903	0.3003	7.37	7.62
E	0.1131	0.1231	2.87	3.12	M	0.1378	0.1478	3.50	3.75
F	0.0737	0.0837	1.87	2.12	N	0.1525	0.1625	3.87	4.12
G	0.0294	0.0494	0.74	1.25	O	0.0740	0.0842	1.88	2.14
H	0.0462	0.0562	1.17	1.42					

Notes: 1.Dimension and tolerance based on our Spec. dated Mar. 6,1995.
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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