

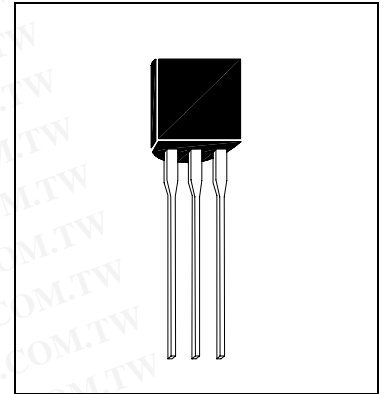


# H2N7000

N-CHANNEL ENHANCEMENT MODE TRANSISTOR

## Description

The H2N7000 is designed for high voltage, high speed applications such as switching regulators, converters, solenoid and relay drivers.



## Absolute Maximum Ratings

- Maximum Temperatures
  - Storage Temperature ..... -55 ~ +150 °C
  - Junction Temperature ..... +150 °C Maximum
- Maximum Power Dissipation
  - Total Power Dissipation (Ta=25°C) ..... 400 mW
- Maximum Voltages and Currents (Ta=25°C)
  - BVDSS Drain to Source Voltage ..... 60 V
  - BVGSS Gate to Source Voltage ..... 40 V
  - ID Drain Current ..... 200 mA

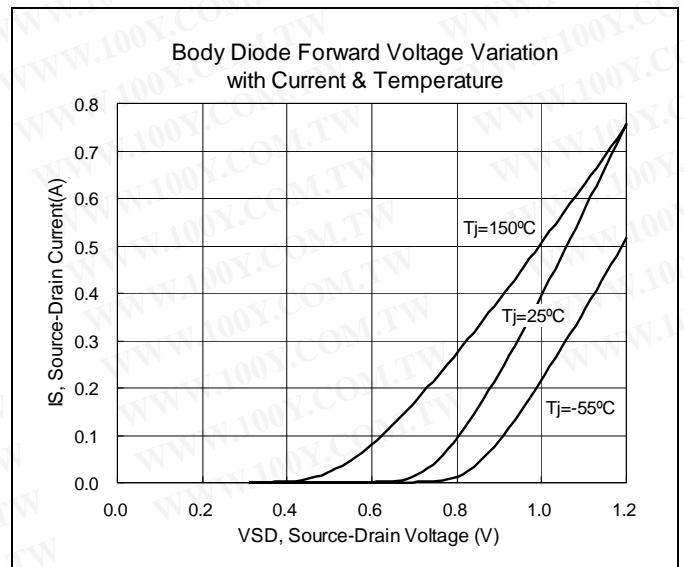
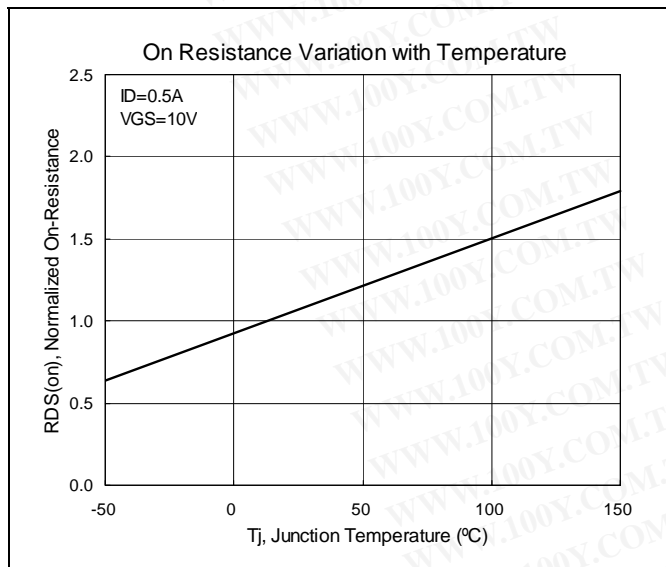
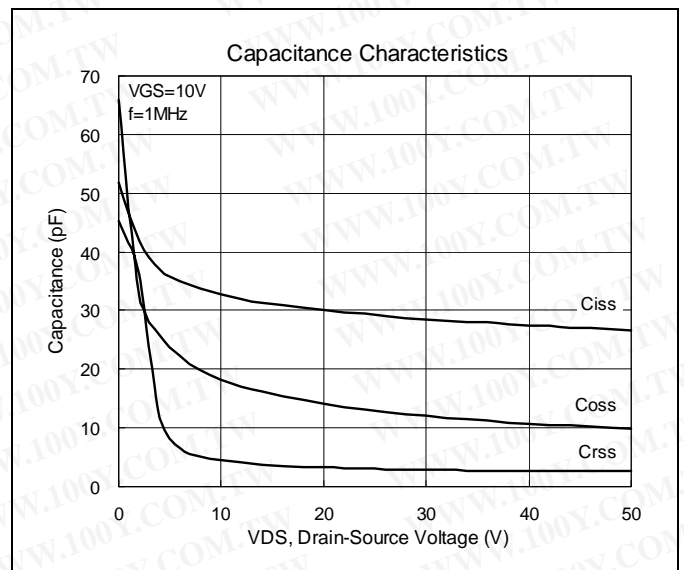
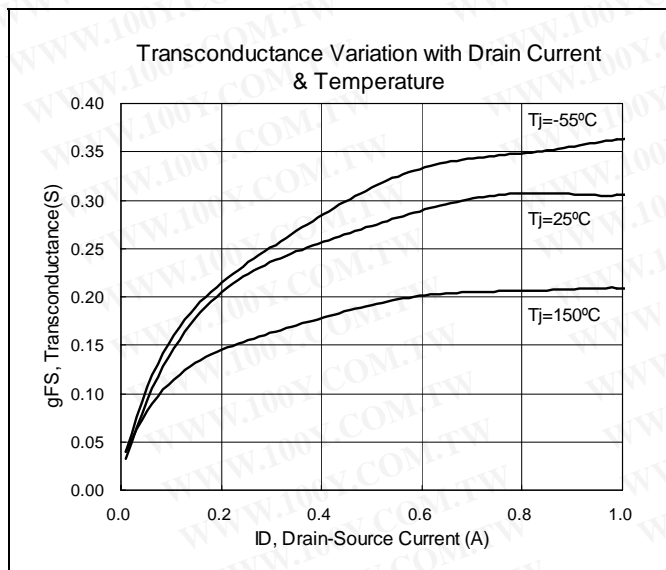
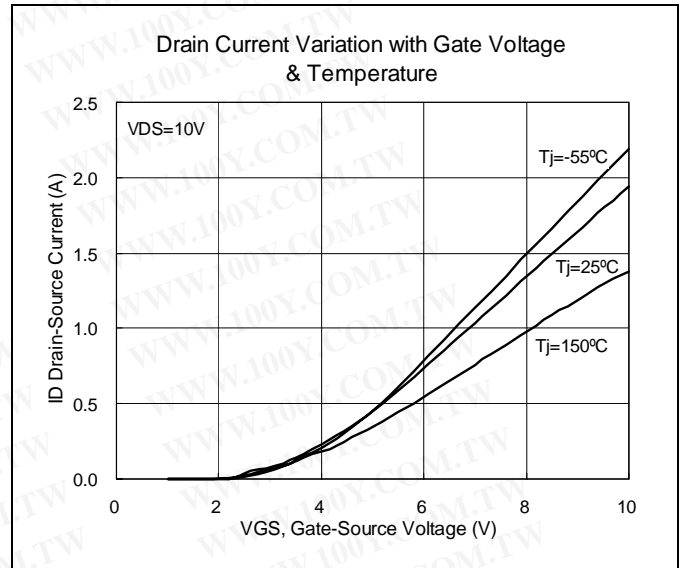
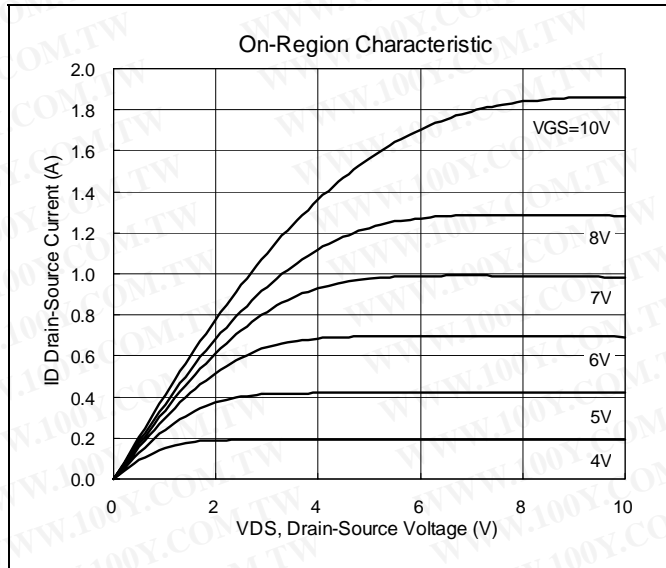
## Characteristics (Ta=25°C)

Symbol	Min.	Max.	Unit	Test Conditions
VDSS	60	-	V	ID=10uA, VGS=0
IDSS	-	1	uA	VDS=48V
±IGSS	-	±10	nA	VGS=±15V
VGS(th)	0.8	3	V	VDS=3V, ID=1mA
ID(on)	75	-	mA	VGS=4.5V, VDS=10V
RDS(on)	-	5	Ω	VGS=10V, ID=0.5A
VDSS(on)1	-	2.5	V	VGS=10V, ID=0.5A
VDSS(on)2	-	0.4	v	VGS=4.5V, ID=75mA

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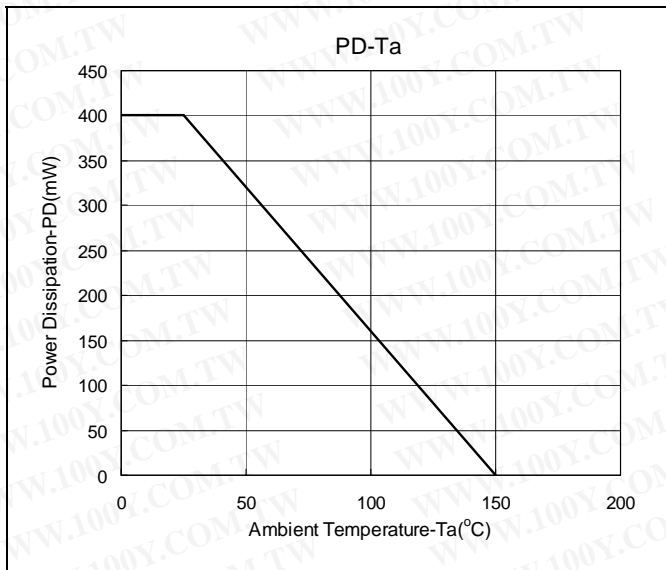
## Characteristics Curve





# HI-SINCERITY MICROELECTRONICS CORP.

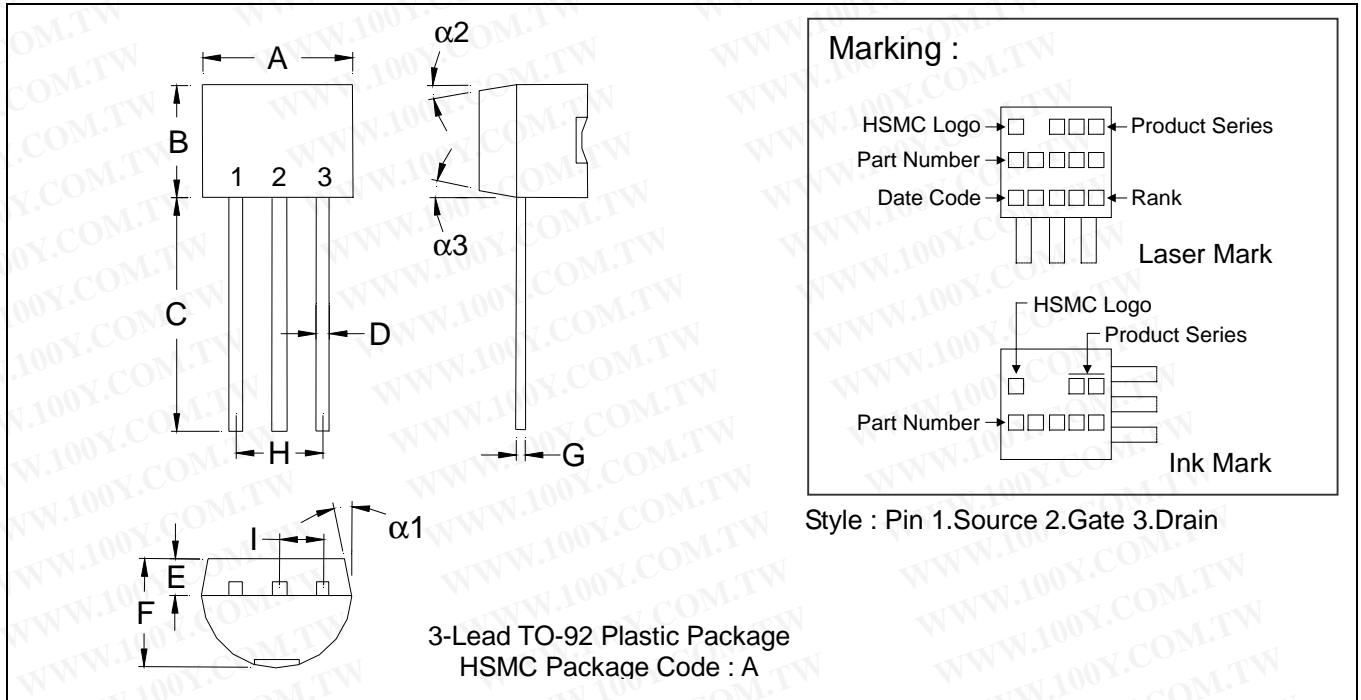
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## TO-92 Dimension



\*: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	$\alpha 1$	-	*5°	-	*5°
E	-	*0.0500	-	*1.27	$\alpha 2$	-	*2°	-	*2°
F	0.1323	0.1480	3.36	3.76	$\alpha 3$	-	*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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