

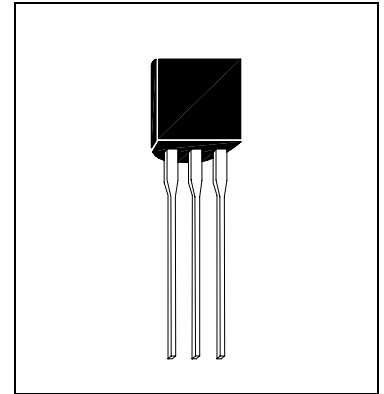


# H2N7000

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

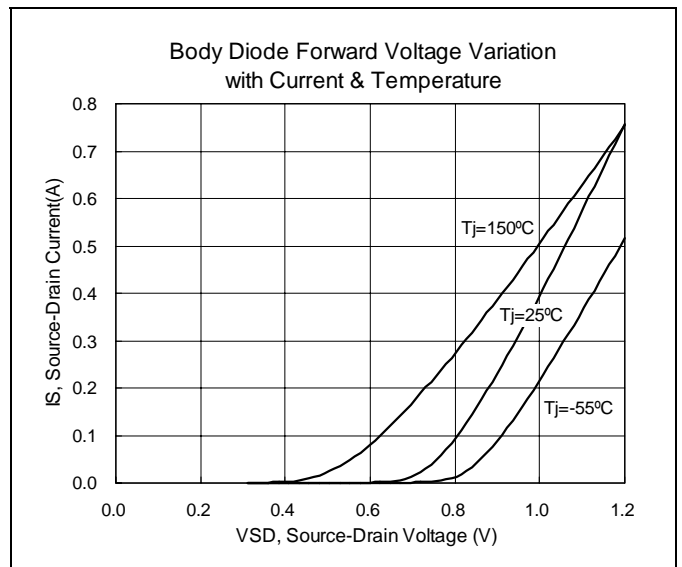
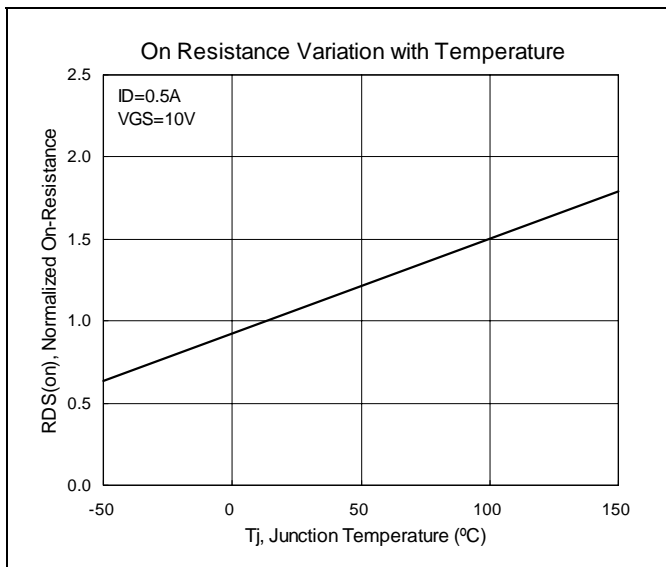
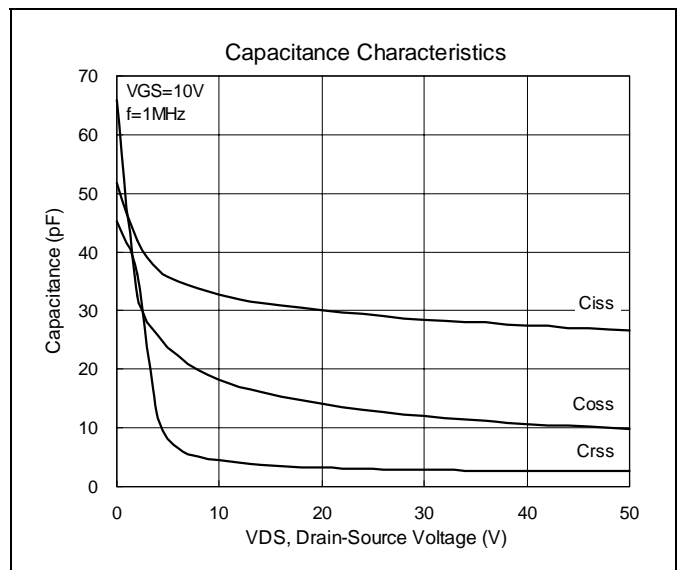
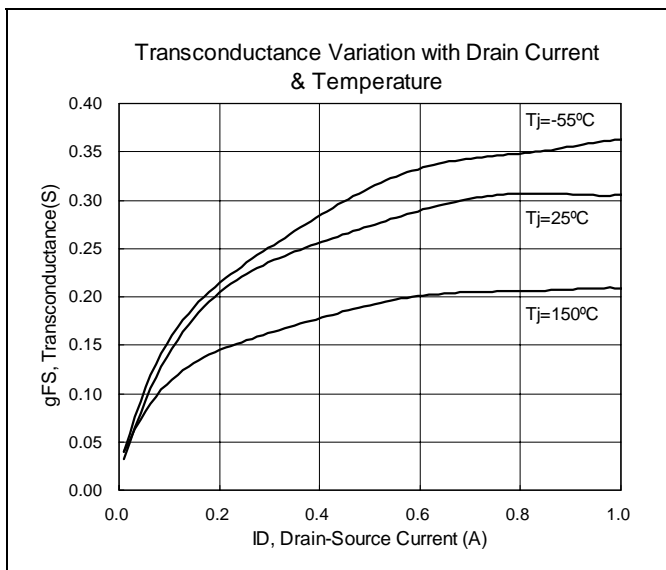
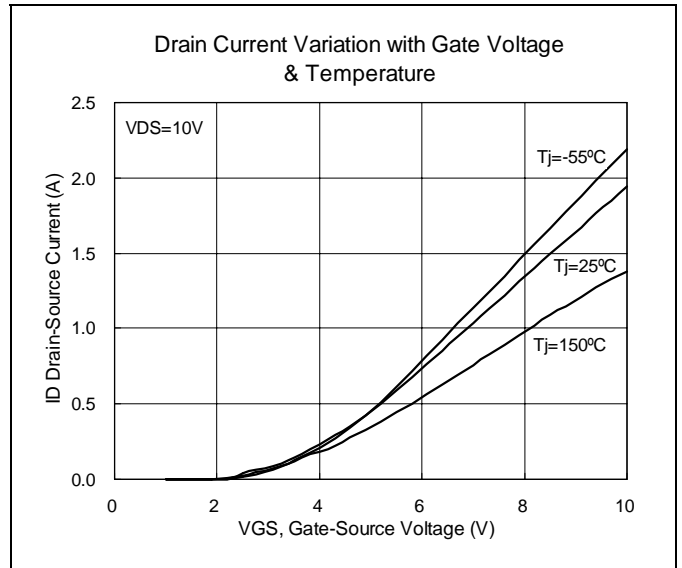
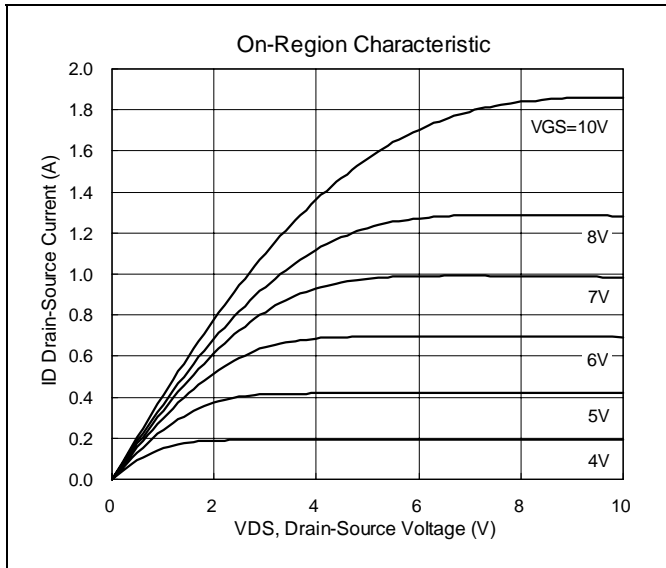
- Maximum Temperatures  
 Storage Temperature ..... -55 ~ +150 °C  
 Junction Temperature ..... +150 °C Maximum
- Maximum Power Dissipation  
 Total Power Dissipation (Ta=25°C) ..... 400 mW
- Maximum Voltages and Currents (Ta=25°C)  
 BVDSS Drain to Source Voltage..... 60 V  
 BVGSS Gate to Source Voltage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

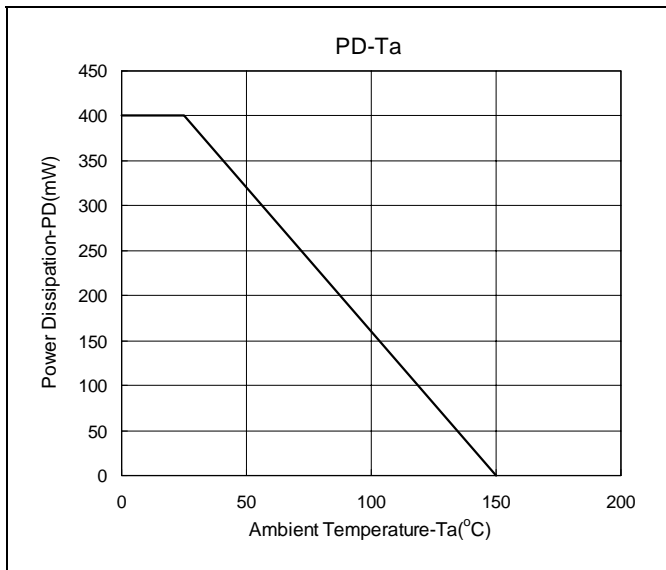
## Characteristics (Ta=25°C)

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



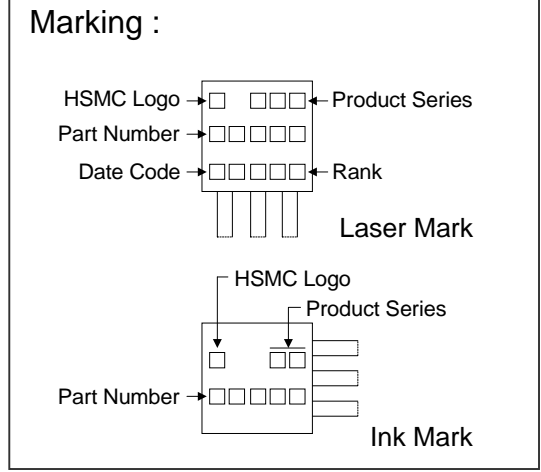
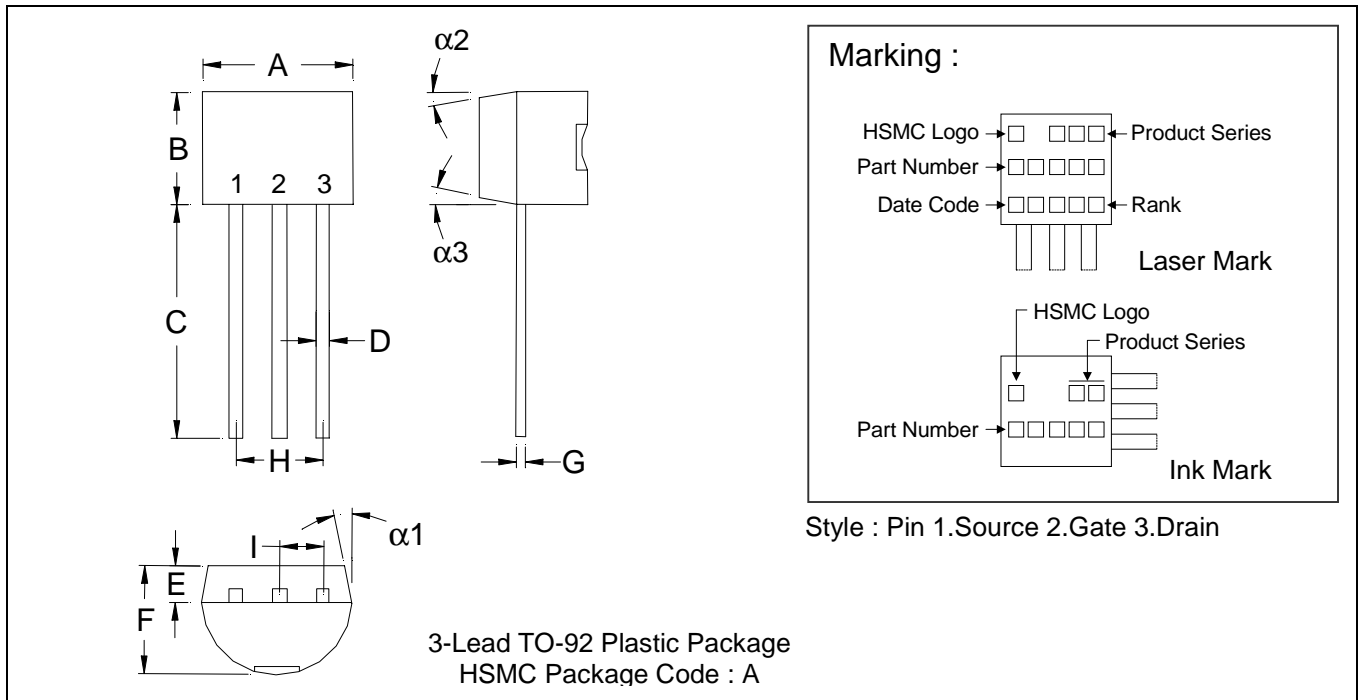
### Characteristics Curve







### TO-92 Dimension



Style : Pin 1.Source 2.Gate 3.Drain

\*: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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