



H2N7000

N-CHANNEL ENHANCEMENT MODE TRANSISTOR

Description

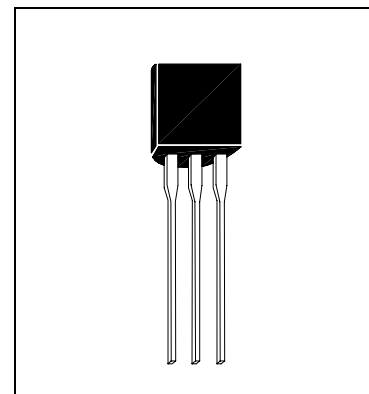
The H2N7000 is designed for high voltage, high speed applications such as switching regulators, converters, solenoid and relay drivers.

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

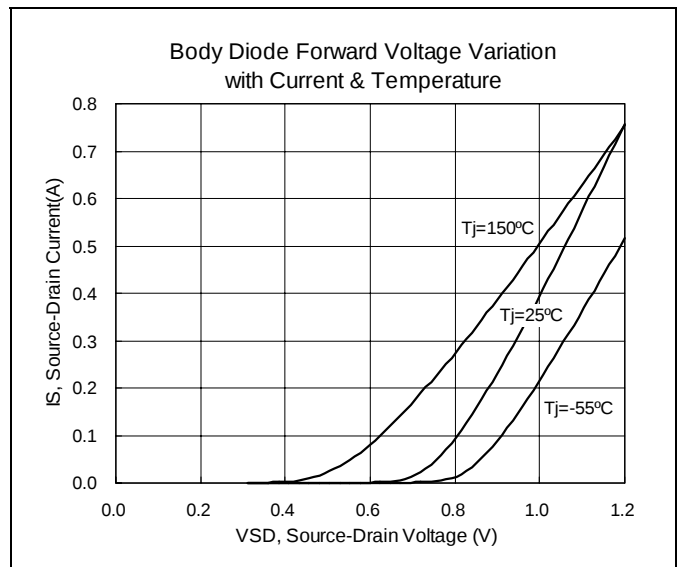
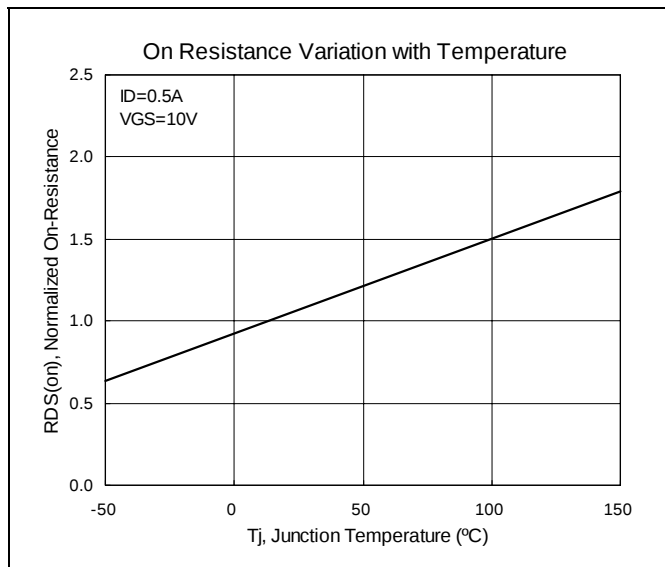
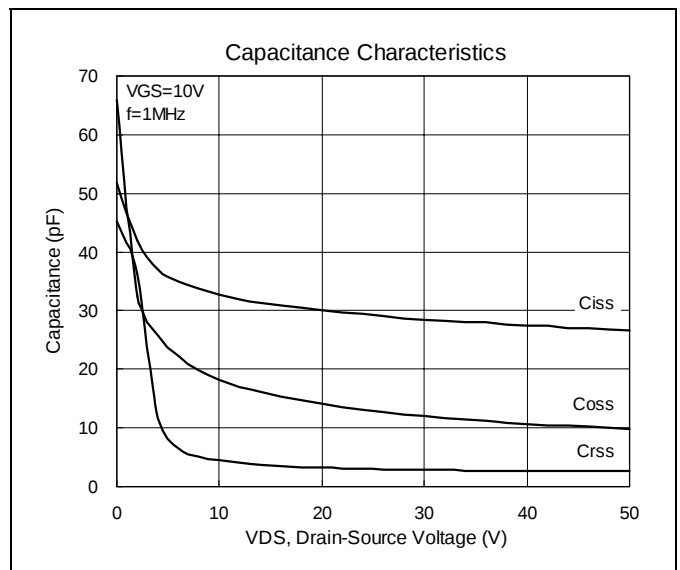
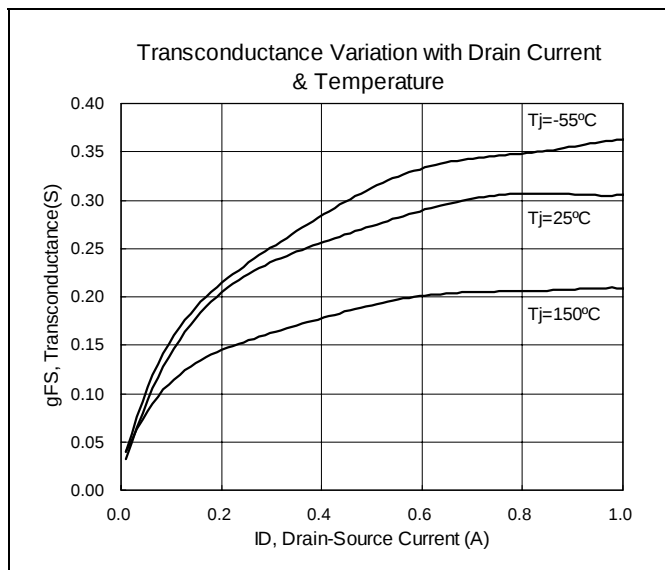
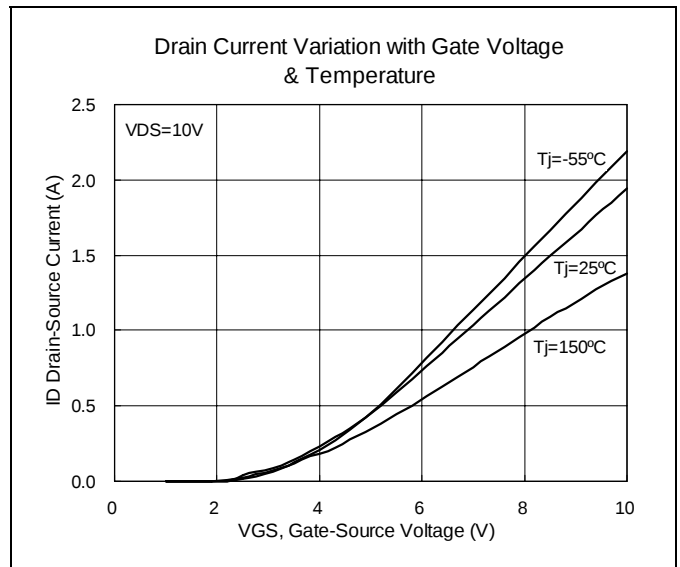
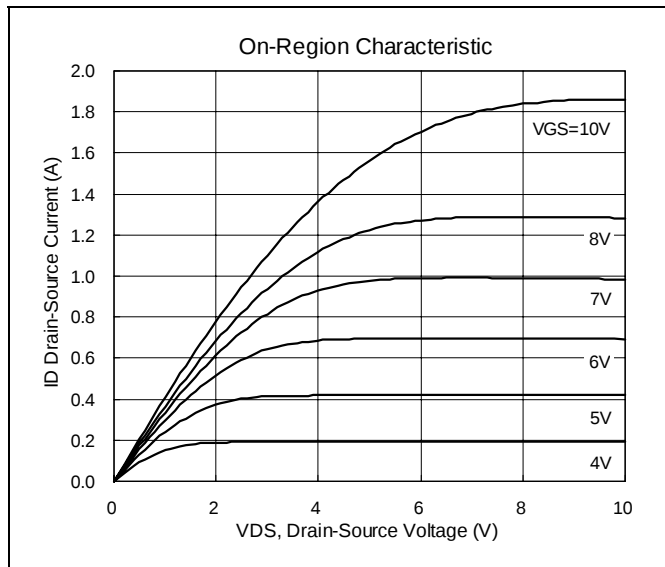
Characteristics (Ta=25°C)

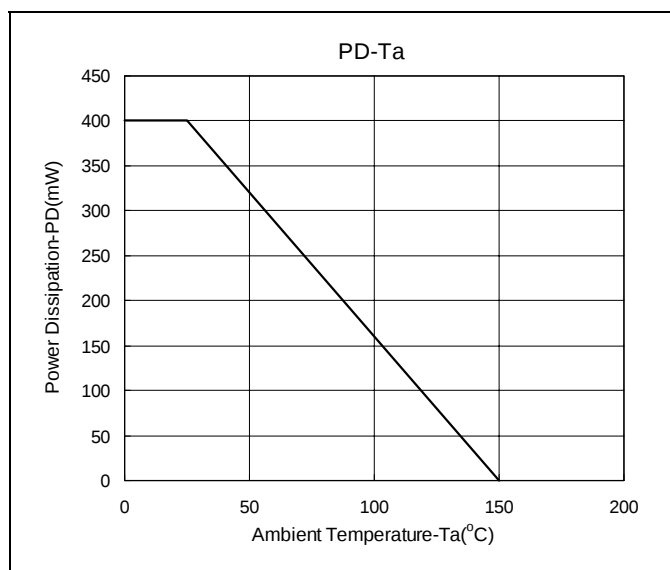
Symbol	Min.	Max.	Unit	Test Conditions
VDSS	60	-	V	ID=10uA, VGS=0
IDSS	-	1	uA	VDS=48V
±IGSS	-	±10	nA	VGS=±15V
VGS(th)	0.8	3	V	VDS=3V, ID=1mA
ID(on)	75	-	mA	VGS=4.5V, VDS=10V
RDS(on)	-	5	Ω	VGS=10V, ID=0.5A
VDSS(on)1	-	2.5	V	VGS=10V, ID=0.5A
VDSS(on)2	-	0.4	v	VGS=4.5V, ID=75mA





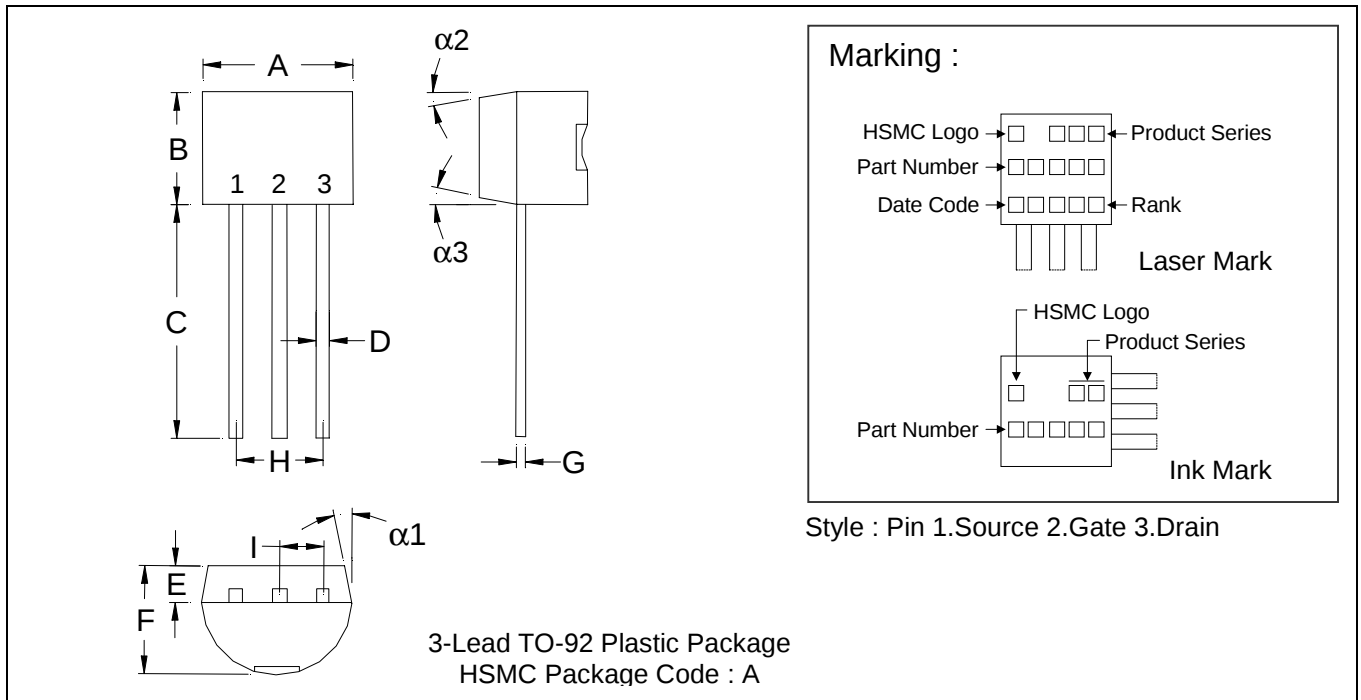
Characteristics Curve







TO-92 Dimension



*: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

Important Notice:

- All rights are reserved. Reproduction in whole or in part is prohibited without the prior written approval of HSMC.
- HSMC reserves the right to make changes to its products without notice.
- **HSMC semiconductor products are not warranted to be suitable for use in Life-Support Applications, or systems.**
- HSMC assumes no liability for any consequence of customer product design, infringement of patents, or application assistance.

Head Office And Factory :

- **Head Office** (Hi-Sincerity Microelectronics Corp.) : 10F.,No. 61, Sec. 2, Chung-Shan N. Rd. Taipei Taiwan R.O.C.
Tel : 886-2-25212056 Fax : 886-2-25632712, 25368454
- **Factory 1** : No. 38, Kuang Fu S. Rd., Fu-Kou Hsin-Chu Industrial Park Hsin-Chu Taiwan. R.O.C
Tel : 886-3-5983621~5 Fax : 886-3-5982931