NTMD3N08, NTMD3N08L

Product Preview

80 V Power MOSFET

ON Semiconductor utilizes its latest MOSFET technology process to manufacture 80 V power MOSFET devices to achieve the lowest possible on–resistance per silicon area. These 80 V devices are designed for Power Management solutions in 42 V Automotive system applications. Typical applications include integrated starter alternator, electronic power steering, electronic fuel injection, catalytic converter heaters and other high power applications made possible via an automotive 42 V bus. ON Semiconductor's latest technology offering continues to offer high avalanche energy capability and low reverse recovery losses.



 $(T_J = 25^{\circ}C \text{ unless otherwise noted})$

Characteristic	Symbol	Min	Тур	Max	Unit		
OFF CHARACTERISTICS							
Drain-to-Source Breakdown Voltage (VGS = 0 Vdc, I _D = 250 μAdc)	V _{(BR)DSS}	80	_	_	Vdc		
Zero Gate Voltage Drain Current ($V_{DS} = 80 \text{ Vdc}$, $V_{GS} = 0 \text{ Vdc}$) ($V_{DS} = 80 \text{ Vdc}$, $V_{GS} = 0 \text{ Vdc}$, $V_{J} = 150^{\circ}\text{C}$)	IDSS	- -	- -	1.0 10	μAdc		
Gate–Body Leakage Current (VGS = ±20 Vdc, VDS = 0 Vdc)	IGSS	_	_	±100	nAdc		

ON CHARACTERISTICS

Gate Threshold Voltage (V _{DS} = V _{GS} , I _D = 250 μAdc) NTMD3N08 NTMD3N08L	VGS(th)	2.0 1.0	3.0 2.0	4.0 3.0	Vdc
Static Drain-to-Source On-Resistance (ID = 1.5 Adc) NTMD3N08, VGS= 10 V NTMD3N08L, VGS = 5 V	RDS(on)	_ _	185 200	1 1	mΩ



http://onsemi.com

3 AMPERES 3N08 Typ RDS(on) = 185 m Ω 3N08L Typ RDS(on) = 200 m Ω





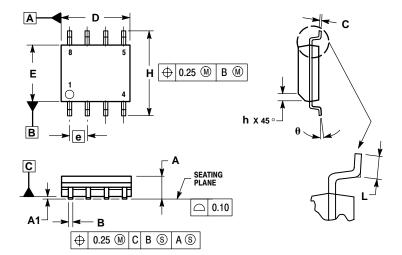
DUAL SO-8 CASE 751 STYLE 11

This document contains information on a product under development. ON Semiconductor reserves the right to change or discontinue this product without notice.

NTMD3N08, NTMD3N08L

PACKAGE DIMENSIONS

DUAL SO-8 CASE 751-06 ISSUE T



NOTES

- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
- 2. DIMENSIONS ARE IN MILLIMETER.
- DIMENSION D AND E DO NOT INCLUDE MOLD PROTRUSION.
- MAXIMUM MOLD PROTRUSION 0.15 PER SIDE.
 DIMENSION B DOES NOT INCLUDE DAMBAR
- DIMENSION B DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127 TOTAL IN EXCESS OF THE B DIMENSION AT MAXIMUM MATERIAL CONDITION.

	MILLIMETERS		
DIM	MIN	MAX	
Α	1.35	1.75	
A1	0.10	0.25	
В	0.35	0.49	
С	0.19	0.25	
D	4.80	5.00	
E	3.80	4.00	
е	1.27 BSC		
Н	5.80	6.20	
h	0.25	0.50	
L	0.40	1.25	
θ	0 °	7 °	

STYLE 11:

PIN 1. SOURCE 1

- 2. GATE 1
- 3. SOURCE 2
- 4. GATE 2 5. DRAIN 2
- 6. DRAIN 2
- 7. DRAIN 1
- 8. DRAIN 1

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