NTF2N08, NTF2N08L

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°C unless otherwise noted)

Characteristic	Symbol	Min	Тур	Max	Unit	
OFF CHARACTERISTICS						
Drain-to-Source Breakdown Voltage	V(BR)DSS	00			Vdc	
$(V_{GS} = 0 \text{ Vdc}, I_D = 250 \mu\text{Adc})$		80	_	_		
Zero Gate Voltage Drain Current (V _{DS} = 80 Vdc, V _{GS} = 0 Vdc)	IDSS	_	_	1.0	μAdc	
(V _{DS} = 80 Vdc, V _{GS} = 0 Vdc, T _J =150°C)		_	ı	10		
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) NTF2N08 NTF2N08L	VGS(th)	2.0 1.0	3.0 1.5	4.0 2.0	Vdc
Static Drain-to-Source On-Resistance (ID = 1.5 Adc) NTF3N08, VGS= 10 V NTF3N08L, VGS = 5 V	RDS(on)	-	195 210	1-1	mΩ



http://onsemi.com

2 AMPERES 2N08 Typ RDS(on) = 195 m Ω 2N08L Typ RDS(on) = 210 m Ω





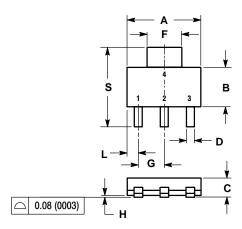
CASE 318E

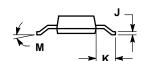
This document contains information on a product under development. ON Semiconductor reserves the right to change or discontinue this product without notice.

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PACKAGE DIMENSIONS

SOT-223 (TO-261) CASE 318E-04 ISSUE K





NOTES

- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M. 1982.
- 2. CONTROLLING DIMENSION: INCH.

	INC	HES	MILLIMETERS		
DIM	MIN	MAX	MIN	MAX	
Α	0.249	0.263	6.30	6.70	
В	0.130	0.145	3.30	3.70	
С	0.060	0.068	1.50	1.75	
D	0.024	0.035	0.60	0.89	
F	0.115	0.126	2.90	3.20	
G	0.087	0.094	2.20	2.40	
Н	0.0008	0.0040	0.020	0.100	
J	0.009	0.014	0.24	0.35	
K	0.060	0.078	1.50	2.00	
L	0.033	0.041	0.85	1.05	
M	0 °	10 °	0 °	10 °	
S	0.264	0.287	6.70	7.30	

STYLE 3:

- PIN 1. GATE 2. DRAIN
 - 3 SOURCE

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