MOSFET – Power, Single N-Channel 40 V, 2.5 mΩ, 132 A

Features

- Small Footprint (5x6 mm) for Compact Design
- Low R_{DS(on)} to Minimize Conduction Losses
- Low Q_G and Capacitance to Minimize Driver Losses
- LFPAK4 Package, Industry Standard
- AEC-Q101 Qualified and PPAP Capable
- These Devices are Pb-Free and are RoHS Compliant

MAXIMUM RATINGS (T_J = 25°C unless otherwise noted)

Parameter			Symbol	Value	Unit
Drain-to-Source Voltage			V_{DSS}	40	V
Gate-to-Source Voltage	Э		V_{GS}	±20	٧
Continuous Drain		T _C = 25°C	I _D	132	Α
Current R _{θJC} (Notes 1, 3)	Steady	T _C = 100°C		94	
Power Dissipation	State	T _C = 25°C	P_{D}	83	W
R _{θJC} (Note 1)		T _C = 100°C		42	
Continuous Drain		T _A = 25°C	I _D	29	Α
Current R _{θJA} (Notes 1, 2, 3)	Steady	T _A = 100°C		20	
Power Dissipation	State $T_A = 25^{\circ}C$		P_{D}	3.9	W
R _{θJA} (Notes 1 & 2)		T _A = 100°C		1.9	
Pulsed Drain Current $T_A = 25^{\circ}C$, $t_p = 10 \mu s$			I _{DM}	780	Α
Operating Junction and Storage Temperature			T _J , T _{stg}	-55 to +175	°C
Source Current (Body Diode)			IS	69	Α
Single Pulse Drain-to-Source Avalanche Energy (I _{L(pk)} = 10 A)			E _{AS}	265	mJ
Lead Temperature for Soldering Purposes (1/8" from case for 10 s)			TL	260	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

THERMAL RESISTANCE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Junction-to-Case - Steady State	$R_{\theta JC}$	1.8	°C/W
Junction-to-Ambient - Steady State (Note 2)	Rela	39	1

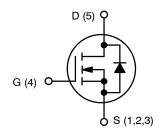
- The entire application environment impacts the thermal resistance values shown, they are not constants and are only valid for the particular conditions noted.
- 2. Surface-mounted on FR4 board using a 650 mm², 2 oz. Cu pad.
- 3. Maximum current for pulses as long as 1 second is higher but is dependent on pulse duration and duty cycle.



ON Semiconductor®

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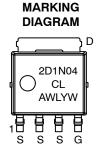
V _{(BR)DSS} R _{DS(ON)} MAX		I _D MAX
40 V	2.5 mΩ @ 10 V	100 4
40 V	$3.7~\text{m}\Omega$ @ $4.5~\text{V}$	132 A



N-CHANNEL MOSFET



LFPAK4 CASE 760AB



2D1N04CL = Specific Device Code A = Assembly Location

WL = Wafer Lot
 Y = Year
 W = Work Week

ORDERING INFORMATION

See detailed ordering, marking and shipping information in the package dimensions section on page 5 of this data sheet.

ELECTRICAL CHARACTERISTICS (T_J = 25°C unless otherwise specified)

Parameter	Symbol	Test Condition		Min	Тур	Max	Unit
OFF CHARACTERISTICS	•				•		•
Drain-to-Source Breakdown Voltage	V _{(BR)DSS}	$V_{GS} = 0 \text{ V}, I_D = 250 \mu\text{A}$		40			V
Drain-to-Source Breakdown Voltage Temperature Coefficient	V _{(BR)DSS} /				20		mV/°C
Zero Gate Voltage Drain Current	I _{DSS}	V _{GS} = 0 V.	T _J = 25 °C			10	
		$V_{GS} = 0 \text{ V},$ $V_{DS} = 40 \text{ V}$	T _J = 125°C			250	μΑ
Gate-to-Source Leakage Current	I _{GSS}	V _{DS} = 0 V, V _{GS}	_S = 20 V			100	nA
ON CHARACTERISTICS (Note 4)							
Gate Threshold Voltage	V _{GS(TH)}	$V_{GS} = V_{DS}, I_D$	= 90 μΑ	1.2		2.0	V
Threshold Temperature Coefficient	V _{GS(TH)} /T _J				-5.4		mV/°C
Drain-to-Source On Resistance	R _{DS(on)}	V _{GS} = 10 V	I _D = 50 A		2.0	2.5	
		V _{GS} = 4.5 V	I _D = 50 A		2.9	3.7	mΩ
Forward Transconductance	9 _{FS}	V _{DS} = 15 V, I _D	₎ = 50 A		116		S
CHARGES, CAPACITANCES & GATE RE	SISTANCE						
Input Capacitance	C _{ISS}				3100		
Output Capacitance	C _{OSS}	V _{GS} = 0 V, f = 1 MH	z, V _{DS} = 25 V		1100		рF
Reverse Transfer Capacitance	C _{RSS}				37		1
Total Gate Charge	Q _{G(TOT)}	$V_{GS} = 4.5 \text{ V}, V_{DS} = 32 \text{ V}; I_D = 50 \text{ A}$ $V_{GS} = 10 \text{ V}, V_{DS} = 32 \text{ V}; I_D = 50 \text{ A}$			23		
Total Gate Charge	Q _{G(TOT)}				50		
Threshold Gate Charge	Q _{G(TH)}				5.0		nC
Gate-to-Source Charge	Q _{GS}		201/ 1 50 4		9.8		1
Gate-to-Drain Charge	Q_{GD}	$V_{GS} = 4.5 \text{ V}, V_{DS} = 32 \text{ V}; I_D = 50 \text{ A}$			6.7		1
Plateau Voltage	V_{GP}				3.1		V
SWITCHING CHARACTERISTICS (Note 5	5)						
Turn-On Delay Time	t _{d(ON)}				12		
Rise Time	t _r	V_{GS} = 4.5 V, V_{DS} = 32 V, I_{D} = 50 A, R_{G} = 1.0 Ω			8.3		ns
Turn-Off Delay Time	t _{d(OFF)}				28		
Fall Time	t _f				9.4		
DRAIN-SOURCE DIODE CHARACTERIS	TICS					•	•
Forward Diode Voltage	V_{SD}	V _{GS} = 0 V,	T _J = 25°C		0.85	1.2	.,
		I _S = 50 A T _J = 125°C			0.73		V
Reverse Recovery Time	t _{RR}	$V_{GS} = 0 \text{ V, } dI_{S}/dt = 100 \text{ A/}\mu\text{s,}$ $I_{S} = 50 \text{ A}$			46		
Charge Time	t _a				23		ns
Discharge Time	t _b				23		1
Reverse Recovery Charge	Q _{RR}				40		nC
	•			•			•

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

4. Pulse Test: pulse width $\leq 300~\mu s$, duty cycle $\leq 2\%$.

5. Switching characteristics are independent of operating junction temperatures.

TYPICAL CHARACTERISTICS

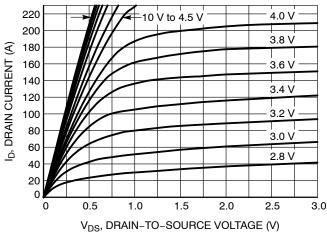


Figure 1. On-Region Characteristics

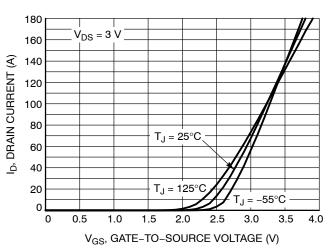


Figure 2. Transfer Characteristics

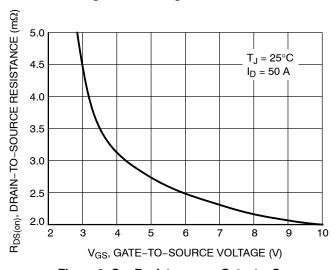


Figure 3. On-Resistance vs. Gate-to-Source Voltage

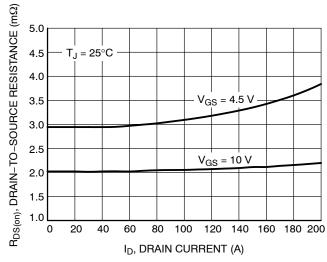


Figure 4. On-Resistance vs. Drain Current and Gate Voltage

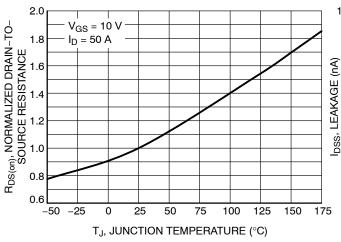


Figure 5. On–Resistance Variation with Temperature

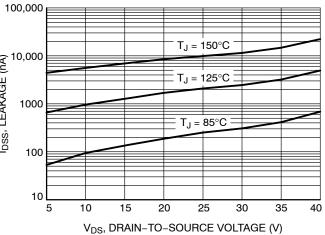
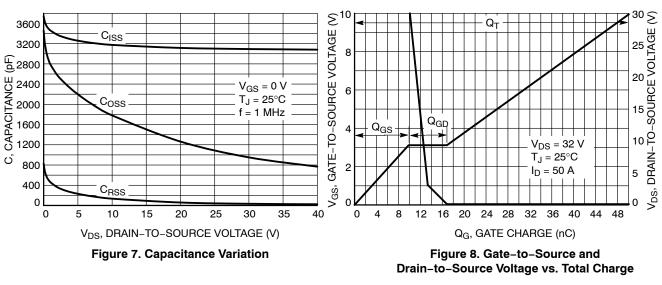


Figure 6. Drain-to-Source Leakage Current vs. Voltage

TYPICAL CHARACTERISTICS



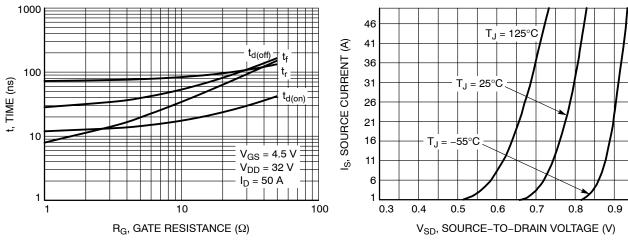


Figure 9. Resistive Switching Time Variation vs. Gate Resistance

Figure 10. Diode Forward Voltage vs. Current

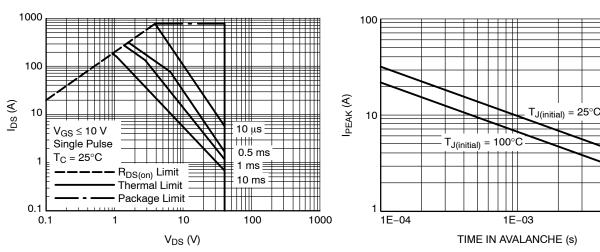


Figure 11. Safe Operating Area

Figure 12. I_{PEAK} vs. Time in Avalanche

1E-02

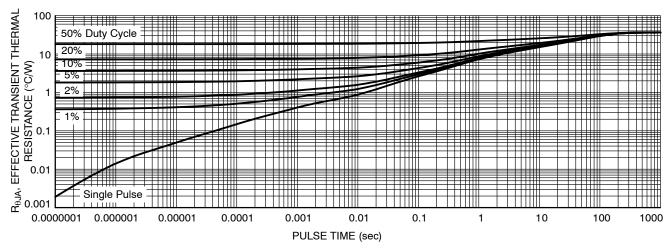


Figure 13. Thermal Characteristics

DEVICE ORDERING INFORMATION

Device	Marking	Marking Package	
NVMYS2D1N04CLTWG	2D1N04CL	LFPAK4 (Pb-Free)	3000 / Tape & Reel

[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

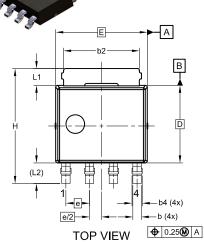


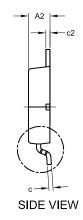
LFPAK4 4.90x4.15x1.15MM, 1.27P CASE 760AB

ISSUE D

1.30

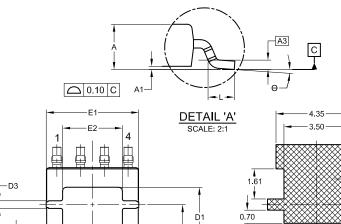
DATE 22 MAY 2024





NOTES:

- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- CONTROLLING DIMENSION: MILLIMETERS.
- 3. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR BURRS. MOLD FLASH PROTRUSIONS OR GATE BURRS SHALL NOT EXCEED 0.150mm PER SIDE.
- 4. DIMENSIONS D AND E ARE DETERMINED AT THE OUTERMOST EXTREMES OF THE PLASTIC BODY.



D4

(D8)

-	1.61
1	0.70
	↑
,	1.15
	0.70 - - 1.27 -
	RECOMMENDED LAND PATTERN
	*FOR ADDITIONAL INFORMATION ON OUR
	PB-FREE STRATEGY AND SOLDERING
	I B THEE OH WILLIAM GOLDLINIA

*FOR ADDITIONAL INFORMATION ON OUR PB-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DOWNLOAD THE ONSEMI SOLDERING AND MOUNTING TECHNIQUES REFERENCE MANUAL, SOLDERRM/D.

GENERIC MARKING DIAGRAM*

BOTTOM VIEW

D5

D6 (D7)

XXXXXX XXXXXX AWLYW XXXXXX = Specific Device Code A = Assembly Location

WL = Wafer Lot Y = Year W = Work Week

*This information is generic. Please refer to device data sheet for actual part marking. Some products may not follow the Generic Marking.

DIM MIN NOM MAX A 1.10 1.20 1.30 A1 0.00 0.08 0.15 A2 1.10 1.15 1.20 A3 0.25 BSC 0.50 b 0.40 0.45 0.50 b2 3.80 4.10 4.40 b4 0.45 0.55 0.65 c 0.19 0.22 0.25 c2 0.19 0.22 0.25 D 4.15 BSC 0.20 0.25 D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 D5 0.70 0.80 0.90 D6 0.55 0.65 0.75 D7 0.31 REF D8 0.40 REF E 4.90 BSC E1 4.85 4.95 <td< th=""><th colspan="7">MILLIMETER</th></td<>	MILLIMETER						
A1 0.00 0.08 0.15 A2 1.10 1.15 1.20 A3 0.25 BSC b 0.40 0.45 0.50 b2 3.80 4.10 4.40 b4 0.45 0.55 0.65 c 0.19 0.22 0.25 c2 0.19 0.22 0.25 D 4.15 BSC D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 D5 0.70 0.80 0.90 D6 0.55 0.65 0.75 D7 0.31 REF D8 0.40 REF E 4.90 BSC E1 4.85 4.95 5.05 E2 3.10 3.20 3.30 E3 0.00 0.10 0.20 E4 2.00 2.10 2.20 e 1.27 BSC e/2<	DIM MIN NOM MAX						
A2 1.10 1.15 1.20 A3 0.25 BSC b 0.40 0.45 0.50 b2 3.80 4.10 4.40 b4 0.45 0.55 0.65 c 0.19 0.22 0.25 c2 0.19 0.22 0.25 D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 D5 0.70 0.80 0.90 D6 0.55 0.65 0.75 D7 0.31 REF D8 0.40 REF E 4.90 BSC E1 4.85 4.95 5.05 E2 3.10 3.20 3.30 E3 0.00 0.10 0.20 E4 2.00 2.10 2.20 e 1.27 BSC e/2 0.635 BSC e1 0.40 REF H 6.00	Α	1.10	1.20	1.30			
A3	A1	0.00	0.08	0.15			
b 0.40 0.45 0.50 b2 3.80 4.10 4.40 b4 0.45 0.55 0.65 c 0.19 0.22 0.25 c2 0.19 0.22 0.25 D 4.15 BSC D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 D5 0.70 0.80 0.90 D6 0.55 0.65 0.75 D7 0.31 REF B8 0.40 REF E 4.90 BSC E1 4.85 4.95 5.05 E2 3.10 3.20 3.30 E3 0.00 0.10 0.20 E4 2.00 2.10 2.20 e 1.27 BSC e/2 0.635 BSC e1 0.40 REF	A2	1.10	1.15	1.20			
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C 0.19 0.22 0.25 c2 0.19 0.22 0.25 D 4.15 BSC D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 D5 0.70 0.80 0.90 D6 0.55 0.65 0.75 D7 0.31 REF D8 0.40 REF E 4.90 BSC E1 4.85 4.95 5.05 E2 3.10 3.20 3.30 E3 0.00 0.10 0.20 E4 2.00 2.10 2.20 e 1.27 BSC e/2 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.50 0.70 0.90 L1 0.80 0.90 1.00	b2	3.80	4.10	4.40			
C2 0.19 0.22 0.25 D 4.15 BSC D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 D5 0.70 0.80 0.90 D6 0.55 0.65 0.75 D7 0.31 REF D8 0.40 REF E 4.90 BSC E1 4.85 4.95 5.05 E2 3.10 3.20 3.30 E3 0.00 0.10 0.20 E4 2.00 2.10 2.20 e 1.27 BSC e/2 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.50 0.70 0.90 L1 0.80 0.90 1.00 L2 1.10 REF 1.10 REF	b4		0.55				
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D4 0.90 1.00 1.10 D5 0.70 0.80 0.90 D6 0.55 0.65 0.75 D7 0.31 REF D8 0.40 REF E 4.90 BSC E1 4.85 4.95 5.05 E2 3.10 3.20 3.30 E3 0.00 0.10 0.20 E4 2.00 2.10 2.20 e 1.27 BSC e/2 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.50 0.70 0.90 L1 0.80 0.90 1.00 L2 1.10 REF	D2	3.00	3.10	3.20			
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D6 0.55 0.65 0.75 D7 0.31 REF D8 0.40 REF E 4.90 BSC E1 4.85 4.95 5.05 E2 3.10 3.20 3.30 E3 0.00 0.10 0.20 E4 2.00 2.10 2.20 e 1.27 BSC e/2 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.50 0.70 0.90 L1 0.80 0.90 1.00 L2 1.10 REF	D4	0.90	1.00	1.10			
D7 0.31 REF D8 0.40 REF E 4.90 BSC E1 4.85 4.95 5.05 E2 3.10 3.20 3.30 E3 0.00 0.10 0.20 E4 2.00 2.10 2.20 e 1.27 BSC e/2 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.50 0.70 0.90 L1 0.80 0.90 1.00 L2 1.10 REF	D5	0.70	0.80	0.90			
D8 0.40 REF E 4.90 BSC E1 4.85 4.95 5.05 E2 3.10 3.20 3.30 E3 0.00 0.10 0.20 E4 2.00 2.10 2.20 e 1.27 BSC e/2 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.50 0.70 0.90 L1 0.80 0.90 1.00 L2 1.10 REF	D6	0.55	0.65	0.75			
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E2 3.10 3.20 3.30 E3 0.00 0.10 0.20 E4 2.00 2.10 2.20 e 1.27 BSC e/2 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.50 0.70 0.90 L1 0.80 0.90 1.00 L2 1.10 REF		4	4.90 BS	0			
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E4 2.00 2.10 2.20 e 1.27 BSC e/2 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.50 0.70 0.90 L1 0.80 0.90 1.00 L2 1.10 REF	E2	3.10	3.20	3.30			
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e 1.27 BSC e/2 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.50 0.70 0.90 L1 0.80 0.90 1.00 L2 1.10 REF	E4			2.20			
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H 6.00 6.15 6.30 L 0.50 0.70 0.90 L1 0.80 0.90 1.00 L2 1.10 REF	e/2						
L 0.50 0.70 0.90 L1 0.80 0.90 1.00 L2 1.10 REF		0.40 REF					
L1 0.80 0.90 1.00 L2 1.10 REF							
L2 1.10 REF	L						
L2 1.10 REF Θ 0° 4° 8°	L1						
Θ 0° 4° 8°		1.10 REF					
	θ	0°	4°	8°			

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