LDO Regulator, 1 A, High Accuracy (0.7%), Adjustable, Low Noise, High PSRR with Power Good

NCP59801

The NCP59801 is a 1 A LDO, next generation of high PSRR, low noise and low dropout regulators with Power Good open collector output. Designed to meet the requirements of RF and sensitive analog circuits, the NCP59801 device provides low noise, high PSRR and low quiescent current while offering the ability to regulate output voltages down to 0.6 V. The device also offers excellent load / line transients. The NCP59801 is designed to work with a 4.7 µF input and output ceramic capacitor. It is available in industry standard DFNW8 0.65P, 3 mm x 3 mm and WDFNW6 0.65P, 2 mm x 2 mm.

Features

- Operating Input Voltage Range: 1.6 V to 5.5 V
- Available in Fixed Voltage Option: 0.6 V to 5.0 V
- Adjustable Version Reference Voltage: 0.6 V
- ±0.7% Initial Accuracy at 25 °C
- ±1% Accuracy Over Load and Temperature
- Low Quiescent Current Typ. 35 µA
- Shutdown Current: Typ. 0.1 µA
- Very Low Dropout: Typ. 120 mV at 1 A for 3.3 V Variant
- High PSRR: Typ. 85 dB at 100 mA, f = 1 kHz
- Low Noise: 10 μV_{RMS} (Fixed Version)
- Stable with a 4.7 µF Small Case Size Ceramic Capacitors
- Controlled Output Voltage Slew Rate from 5 mV / µs
- Available in DFNW8 3 mm x 3 mm x 0.9 mm Case 507AD and WDFNW6 2 mm x 2 mm x 0.75 mm Case 511DW
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

Typical Applications

- Communication Systems
- In-Vehicle Networking
- Telematics, Infotainment and Clusters
- General Purpose Automotive

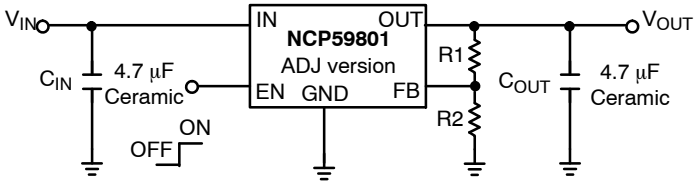
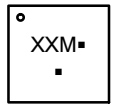


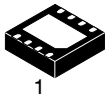
Figure 1. Typical Application Schematics

MARKING DIAGRAMS



WDFNW6 2x2, 0.65P
CASE 511DW





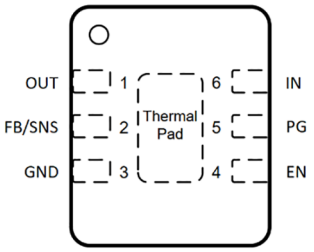
DFNW8 3x3, 0.65P
CASE 507AD

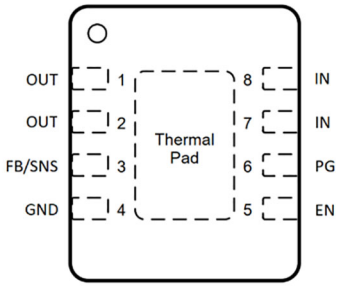


XXX = Specific Device Code
A = Assembly Location
L = Wafer Lot
M = Month Code
Y = Year
W = Work Week
▪ = Pb-Free Package

(Note: Microdot may be in either location)

PIN CONNECTONS





ORDERING INFORMATION

See detailed ordering, marking and shipping information on page 11 of this data sheet.

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PIN FUNCTION DESCRIPTION

Pin No. DFNW8	Pin No. WDFNW6	Pin Name	Description
1, 2	1	OUT	Regulated output voltage. The output should be bypassed with small 4.7 μF ceramic capacitor
7, 8	6	IN	Input voltage supply pin
5	4	EN	Chip enable: Applying V_{EN} < 0.4 V disables the regulator, Pulling V_{EN} > 1 V enables the LDO
6	5	PG	Power Good, open collector. Use 10 kΩ to 100 kΩ pull-up resistor connected to output or input voltage
4	3	GND	Common ground connection
3	2	FB	Adjustable output feedback pin (for adjustable version only)
3	2	SNS	Sense feedback pin. Must be connected to OUT pin on PCB (for fixed versions only)
PAD	PAD	PAD	Expose pad should be tied to ground plane for better power dissipation

ABSOLUTE MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Input Voltage (Note 1)	V_{IN}	−0.3 to 6	V
Output Voltage	V_{OUT}	−0.3 to V_{IN} + 0.3, max. 6	V
Chip Enable Input	V_{EN}	−0.3 to 6	V
Power Good Voltage	V_{PG}	−0.3 to 6	V
Power Good Current	I_{PG}	20	mA
Output Short Circuit Duration	t_{SC}	unlimited	s
Maximum Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	−55 to 150	°C
ESD Capability, Human Body Model (Note 2)	ESD_{HBM}	2000	V
ESD Capability, Charged Device Model (Note 2)	ESD_{CDM}	1000	V

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.

1. Refer to ELECTRICAL CHARACTERISTIS and APPLICATION INFORMATION for Safe Operating Area.
2. This device series incorporates ESD protection and is tested by the following methods:
   ESD Human Body Model tested per AEC-Q100-002 (EIA/JESD22-A114)
   ESD Charged Device Model tested per EIA/JESD22-C101, Field Induced Charge Model

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THERMAL CHARACTERISTICS

Rating	Symbol	Value	Unit
Thermal Characteristics, WDFNW6 2x2, 0.65 Pitch Package			
Thermal Resistance, Junction-to-Ambient (Note 3)	$R_{\theta JA}$	60	°C/W
Thermal Resistance, Junction-to-Case (top)	$R_{\theta JC(top)}$	167	°C/W
Thermal Resistance, Junction-to-Case (bottom) (Note 4)	$R_{\theta JC(bot)}$	6.9	°C/W
Thermal Resistance, Junction-to-Board	$R_{\theta JB}$	6.6	°C/W
Characterization Parameter, Junction-to-Top	Ψ_{JT}	4.6	°C/W
Characterization Parameter, Junction-to-Board	Ψ_{JB}	6.5	°C/W
Thermal Characteristics, DFNW8 3x3, 0.65 Pitch Package			
Thermal Resistance, Junction-to-Ambient (Note 3)	$R_{\theta JA}$	44.4	°C/W
Thermal Resistance, Junction-to-Case (top)	$R_{\theta JC(top)}$	115	°C/W
Thermal Resistance, Junction-to-Case (bottom) (Note 4)	$R_{\theta JC(bot)}$	6.9	°C/W
Thermal Resistance, Junction-to-Board	$R_{\theta JB}$	6.3	°C/W
Characterization Parameter, Junction-to-Top	Ψ_{JT}	5.7	°C/W
Characterization Parameter, Junction-to-Board	Ψ_{JB}	6.3	°C/W

3. The junction-to-ambient thermal resistance under natural convection is obtained in a simulation on a high-K board (2s2p, 1in^2, 1oz Cu) following the JEDEC51.7 guidelines with assumptions as above, in an environment described in JESD51-2a.
4. The junction-to-case (bottom) thermal resistance is obtained by simulating a cold plate test on the IC exposed pad. Test description can be found in the ANSI SEMI standard G30-88.

ELECTRICAL CHARACTERISTICS

$-40\ °C \le T_J \le 125\ °C$; $V_{IN} = V_{OUT(NOM)} + 0.5$ V or 1.6 V, whichever is greater, $I_{OUT} = 1$ mA, $C_{IN} = C_{OUT} = 4.7\ \mu F$, $V_{EN} = V_{IN}$, unless otherwise noted. Typical values are at $T_J = +25\ °C$ (Note 5).

Characteristic	Symbol	Test Conditions		Min	Typ	Max	Unit
Operating Input Voltage	V_{IN}			1.6		5.5	V
Under Voltage Lock Out	V_{UVLO}				1.5		V
Output Voltage Accuracy	V_{OUT}	$V_{IN} = V_{OUT(NOM)} + 0.5$ V, $I_{OUT} = 1$ mA $T_J = +25\ °C$		−0.7	V_{NOM}	+0.7	%
		$V_{IN} = V_{OUT(NOM)} + 0.5$ V to 5.5 V, $0.1\ mA \le I_{OUT} \le 1$ A		−1	V_{NOM}	+1	%
Reference Voltage (Adjustable Ver. FB pin connected to OUT)	V_{FB}	$V_{IN} = 1.6$ V to 5.5 V, $0.1\ mA \le I_{OUT} \le 1$ A		0.594	0.6	0.606	V
Line Regulator	$Line_{Reg}$	$V_{OUT(NOM)} + 0.5\ V \le V_{IN} \le 5.5$ V			0.5		mV/V
Load Regulator	$Load_{Reg}$	$I_{OUT} = 1$ mA to 1 A			2		mV
Dropout Voltage (Note 5)	V_{DO}	$I_{OUT} = 1$ A	$V_{OUT(NOM)} = 1.5$ V		211	339	mV
			$V_{OUT(NOM)} = 1.8$ V		175	286	
			$V_{OUT(NOM)} = 2.5$ V		135	220	
			$V_{OUT(NOM)} = 2.8$ V		128	209	
			$V_{OUT(NOM)} = 3.0$ V		124	202	
			$V_{OUT(NOM)} = 3.3$ V		120	198	
			$V_{OUT(NOM)} = 5.0$ V		108	175	
Output Current Limit	I_{CL}	$V_{OUT} = 90\%\ V_{OUT(NOM)}$			1500	1700	mA
Short Circuit Current	I_{SC}	$V_{OUT} = 0$ V			1500		
Quiescent Current	I_Q	$I_{OUT} = 0$ mA			35	55	μA
Shutdown Current	I_{DIS}	$V_{EN} \le 0.4$ V, $T_J \le 125\ °C$			0.1	3.5	μA

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ELECTRICAL CHARACTERISTICS (continued)
$-40\ °C \le T_J \le 125\ °C$; $V_{IN} = V_{OUT(NOM)} + 0.5$ V or 1.6 V, whichever is greater, $I_{OUT} = 1$ mA, $C_{IN} = C_{OUT} = 4.7\ \mu F$, $V_{EN} = V_{IN}$, unless otherwise noted. Typical values are at $T_J = +25\ °C$ (Note 5).

Characteristic	Symbol	Test Conditions		Min	Typ	Max	Unit
EN Pin Threshold Voltage	V_{ENH}	EN Input Voltage "H"		1		V_{IN}	V
	V_{ENL}	EN Input Voltage "L"		0		0.4	
EN Pull Down Current	I_{EN}	$V_{EN} = 5$ V			0.2	0.6	μA
Power Good Threshold Voltage	V_{PGUP}	Output Voltage Raising			95		%
	V_{PGDW}	Output Voltage Falling			90		
Power Good Output Voltage Low	V_{PGLO}	$I_{PG} = 1$ mA, Open drain			30	100	mV
Turn-On Delay Time		$C_{OUT} = 4.7\ \mu F$, From assertion of V_{EN} to V_{OUT} start raise			85		μs
Slew Rate Time ("C" option)		$C_{OUT} = 4.7\ \mu F$, From assertion of V_{EN} to VOUT = 95% $V_{OUT(NOM)}$			5		mV/μs
Slew Rate Time ("D" option)		$C_{OUT} = 4.7\ \mu F$, From assertion of V_{EN} to V_{OUT} = 95% $V_{OUT(NOM)}$			10		mV/μs
Slew Rate Time ("E" option)		$C_{OUT} = 4.7\ \mu F$, From assertion of V_{EN} to V_{OUT} = 95% $V_{OUT(NOM)}$			30		mV/μs
Slew Rate Time ("F" option)		$C_{OUT} = 4.7\ \mu F$, From assertion of V_{EN} to V_{OUT} = 95% $V_{OUT(NOM)}$			100		mV/μs
Power Supply Rejection Ratio	PSRR	$V_{OUT(NOM)} = 3.3$ V, $I_{OUT} = 100$ mA	f = 1 kHz		85		dB
			f = 10 kHz		75		
			f = 100 kHz		53		
			f = 1 MHz		40		
Output Voltage Noise (Fixed Ver.)	V_N	f = 10 Hz to 100 kHz	$I_{OUT} = 100$ mA		10		μV_{RMS}
Thermal Shutdown Threshold	T_{SDH}	Temperature rising			165		°C
	T_{HYST}	Temperature hysteresis			15		°C
Active Output Discharge Resistance	R_{DIS}	$V_{EN} < 0.4$ V, AD Version only			250		Ω

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.

5. Performance guaranteed over the indicated operating temperature range by design and/or characterization. Production tested at $T_A = 25\ °C$. Low duty cycle pulse techniques are used during the testing to maintain the junction temperature as close to ambient as possible.
6. Dropout voltage is characterized when V_{OUT} falls 3% below $V_{OUT(NOM)}$.
7. Guaranteed by design.

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TYPICAL CHARACTERISTICS

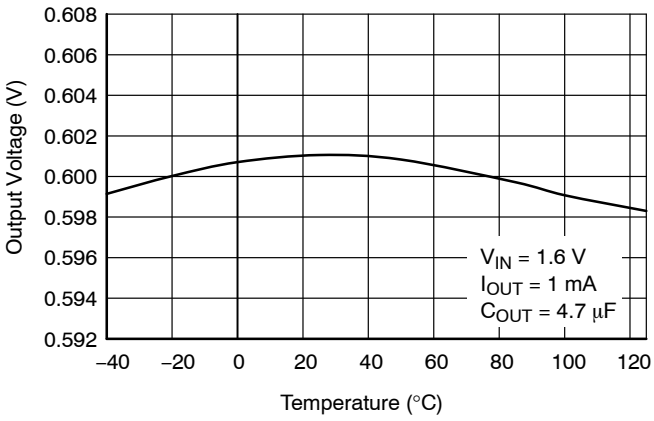

Figure 2. Output Voltage vs. Temperature – V_{OUT} = 0.6 V (Adjustable Reference)

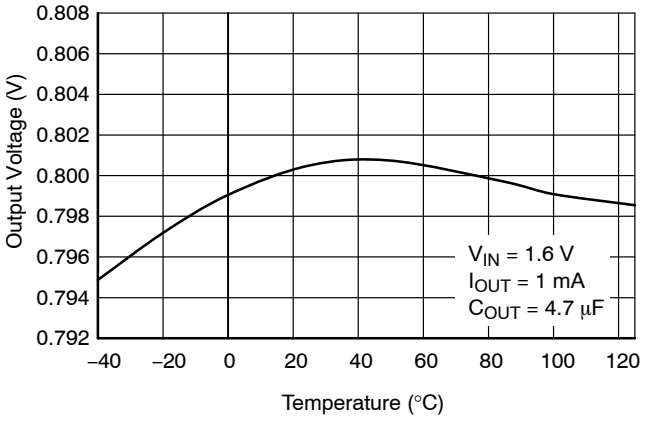

Figure 3. Output Voltage vs. Temperature – V_{OUT} = 0.8 V

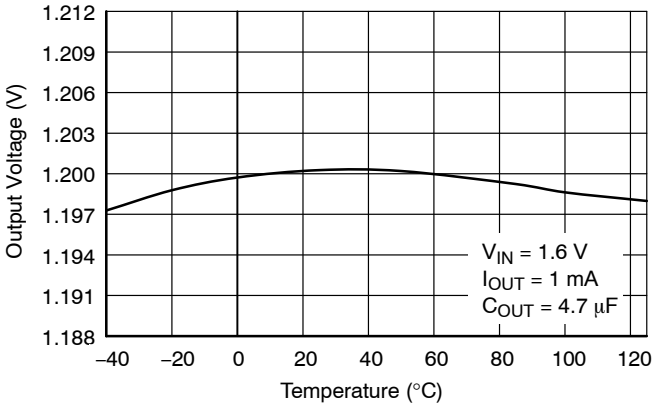

Figure 4. Output Voltage vs. Temperature – V_{OUT} = 1.2 V

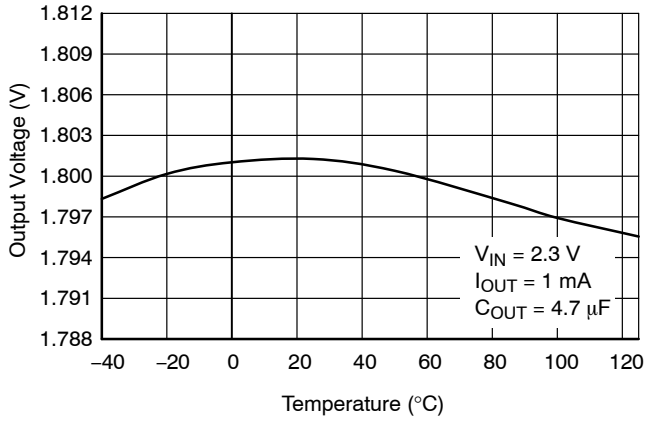

Figure 5. Dropout Voltage vs. Temperature – V_{OUT} = 1.8 V

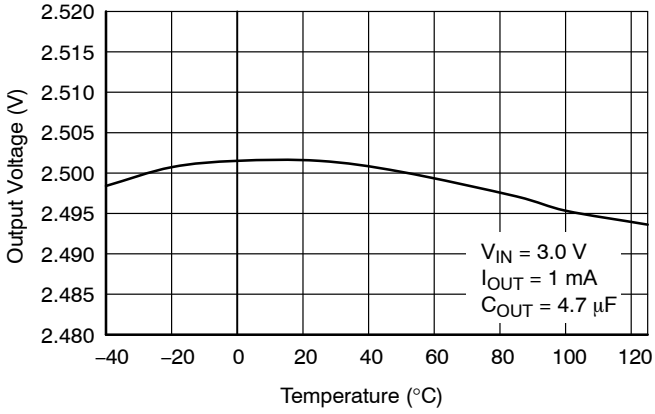

Figure 6. Output Voltage vs. Temperature – V_{OUT} = 2.5 V

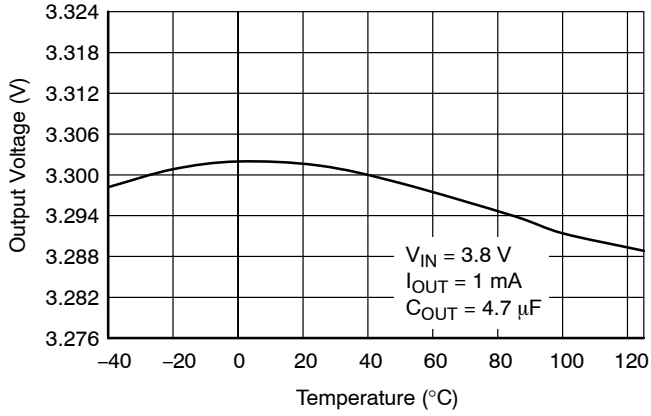

Figure 7. Dropout Voltage vs. Temperature – V_{OUT} = 3.3 V

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TYPICAL CHARACTERISTICS (continued)

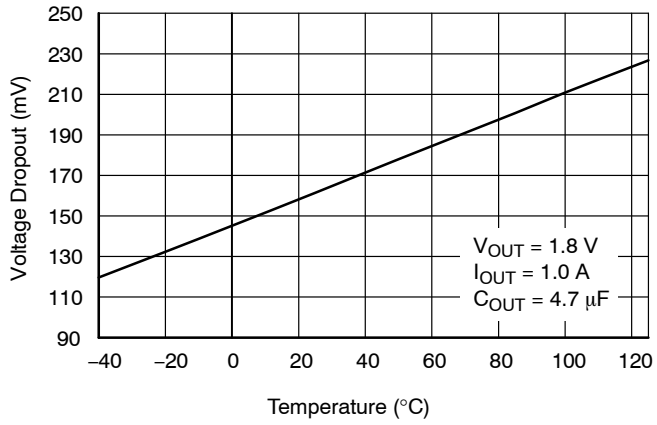

Figure 8. Dropout Voltage vs. Temperature – V_{OUT} = 1.8 V

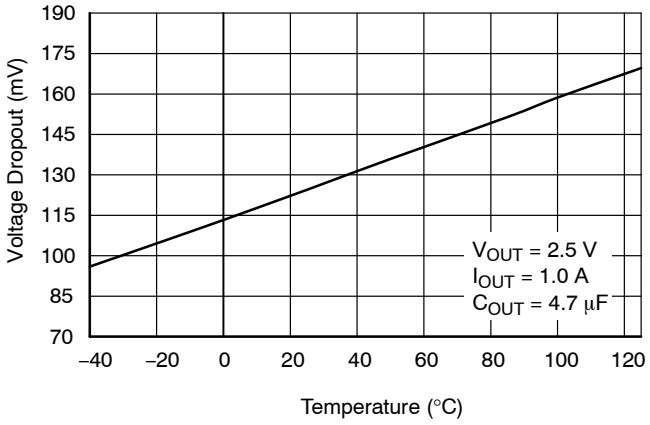

Figure 9. Dropout Voltage vs. Temperature – V_{OUT} = 2.5 V

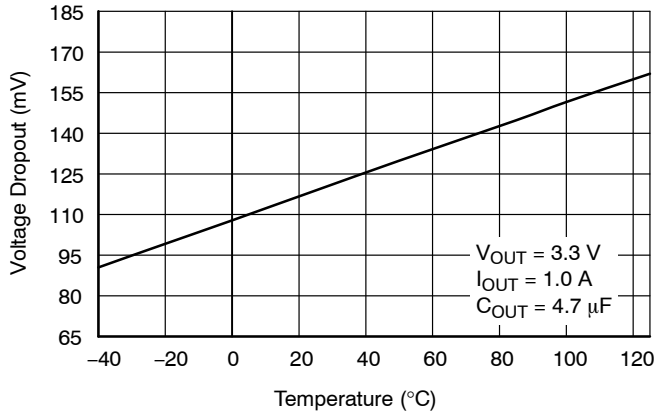

Figure 10. Dropout Voltage vs. Temperature – V_{OUT} = 3.3 V

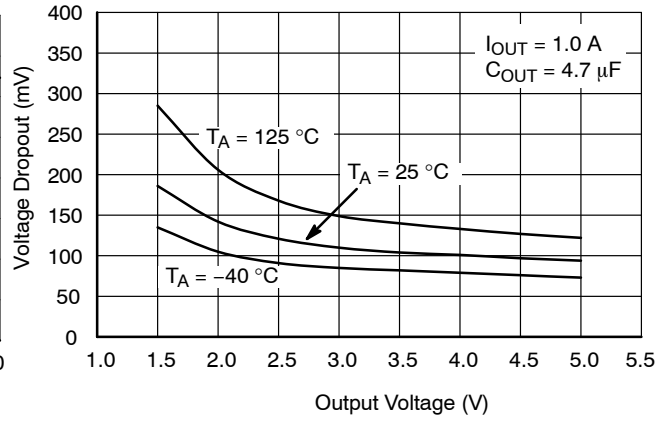

Figure 11. Dropout Voltage vs. Output Voltage

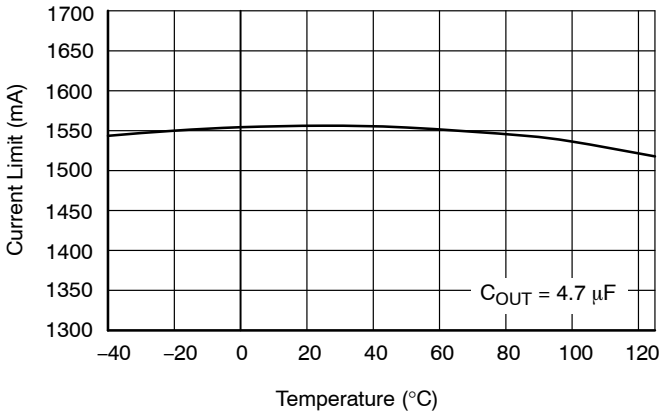

Figure 12. Current Limit vs. Temperature

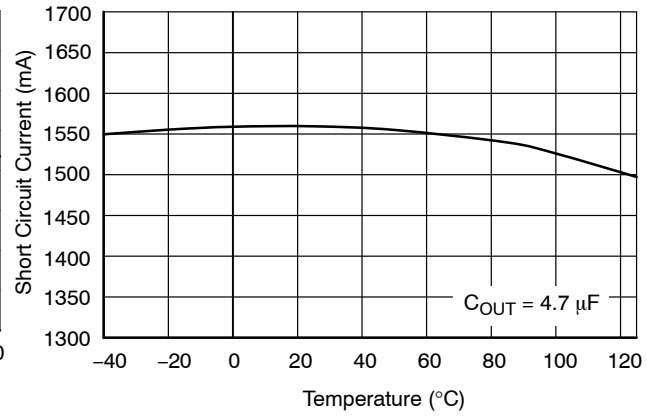

Figure 13. Short Circuit Current vs. Temperature

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TYPICAL CHARACTERISTICS (continued)

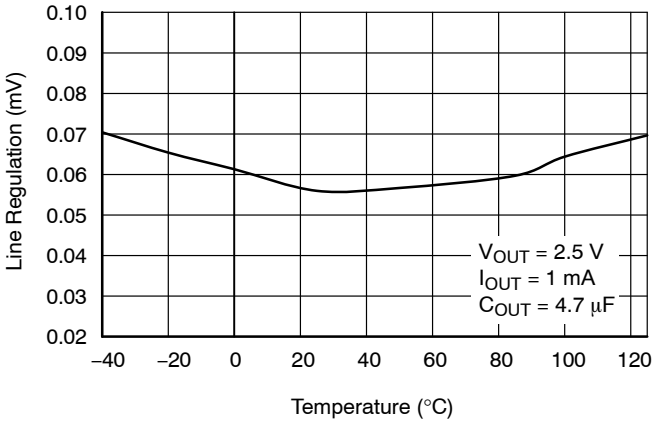

Figure 14. Line Regulation vs. Temperature

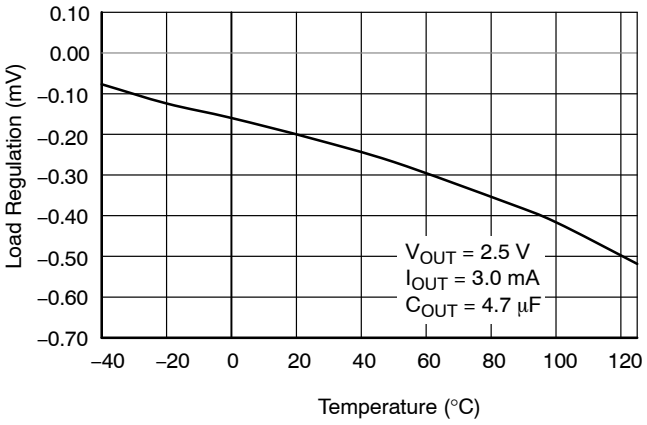

Figure 15. Load Regulation vs. Temperature

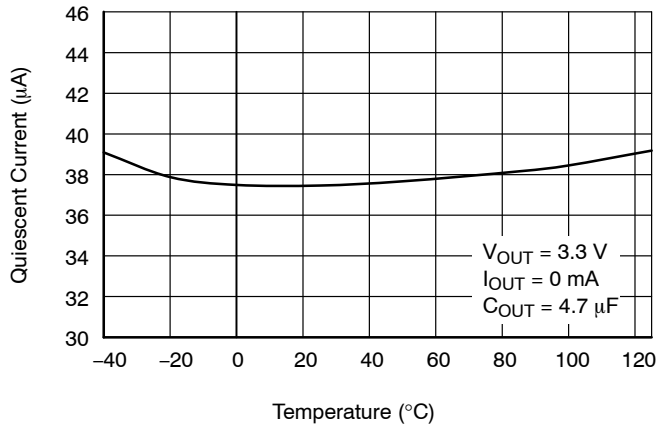

Figure 16. Quiescent Current vs. Temperature

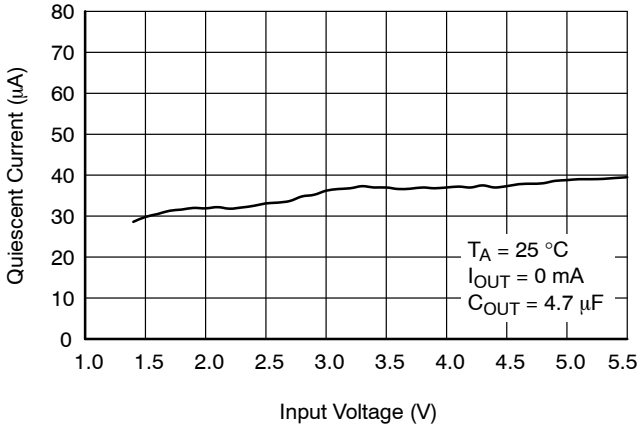

Figure 17. Quiescent Current vs. Input Voltage

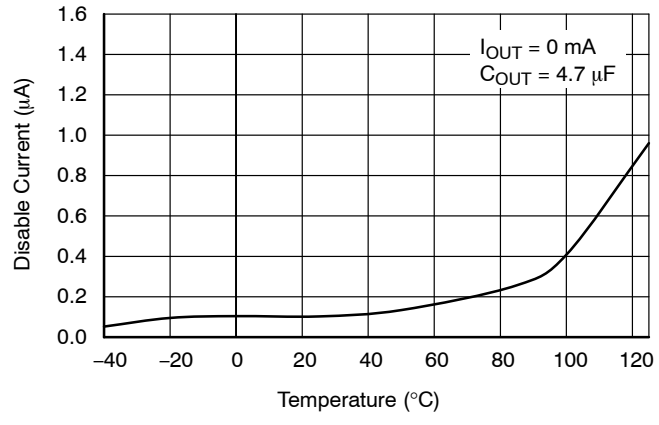

Figure 18. Disable Current vs. Temperature

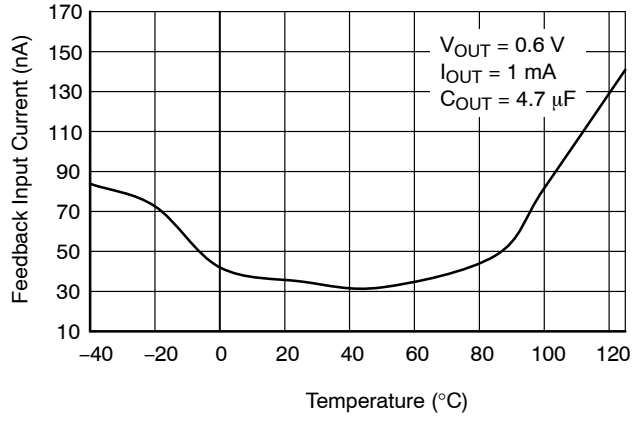

Figure 19. Feedback Input Current vs. Temperature (Adjustable Option)

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TYPICAL CHARACTERISTICS (continued)

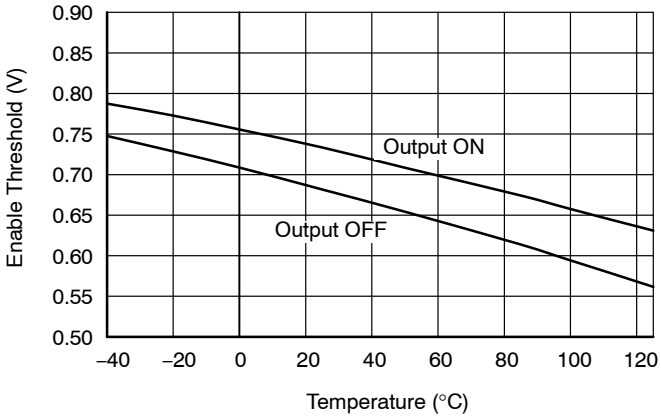

Figure 20. Enable Threshold vs. Temperature

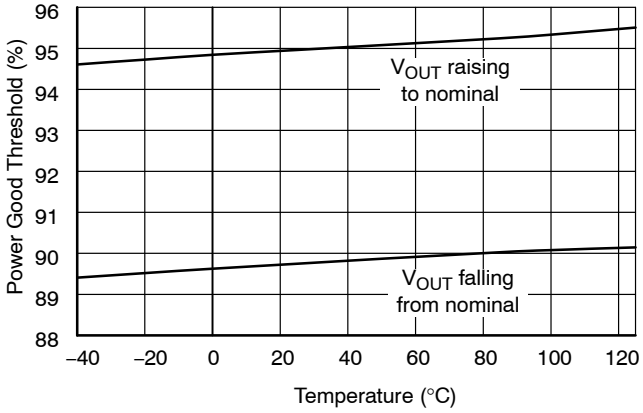

Figure 21. Power Good Threshold vs. Temperature

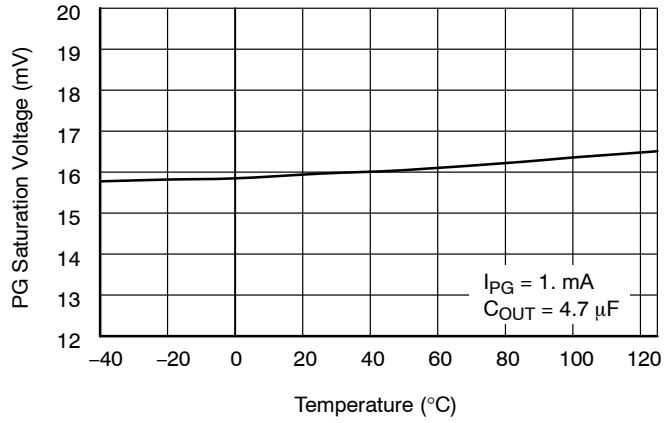

Figure 22. Power Good Saturation Voltage vs. Temperature

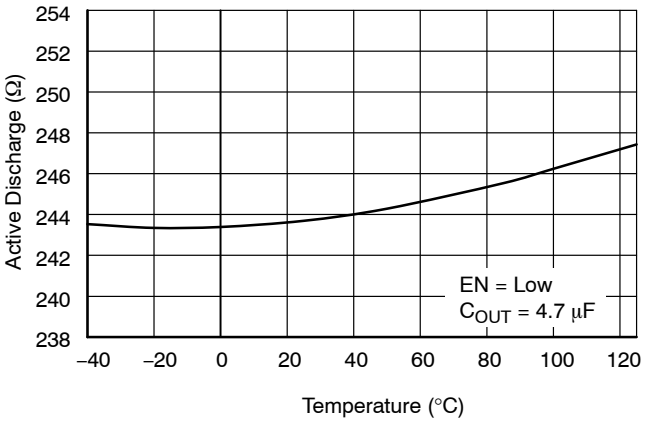

Figure 23. Active Discharge Resistance vs. Temperature

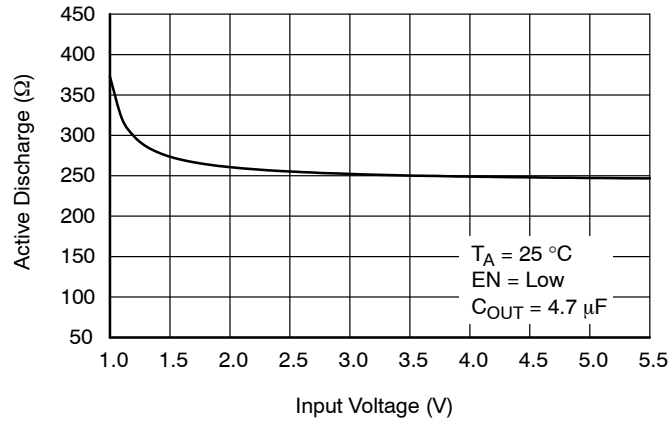

Figure 24. Active Discharge Resistance vs. Input Voltage

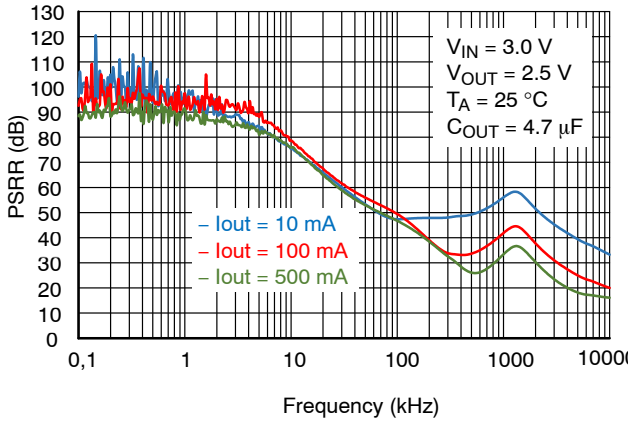

Figure 25. Power Supply Rejection Ratio for V_{OUT} = 2.5 V, C_{OUT} = 4.7 μF

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TYPICAL CHARACTERISTICS (continued)

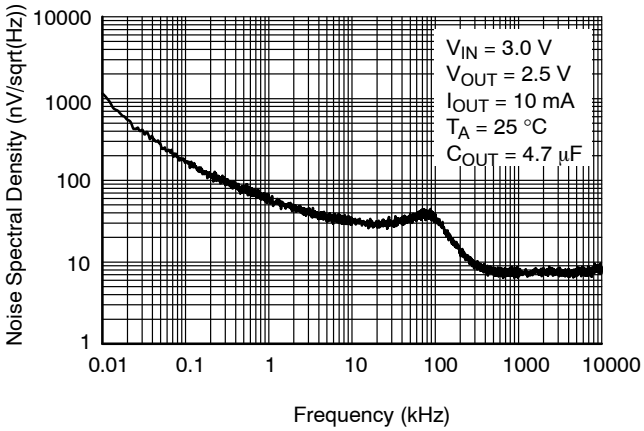

Figure 26. Output Voltage Noise Spectral Density for V_{OUT} = 2.5 V, C_{OUT} = 4.7 μF

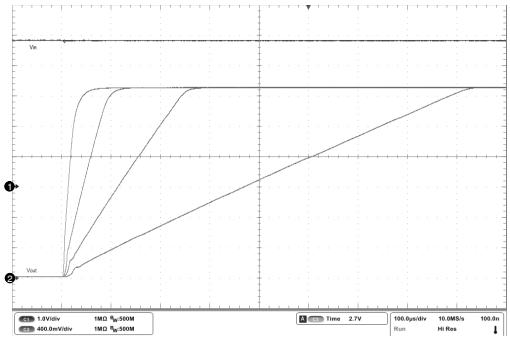

Figure 27. Controlled Output Voltage Slew Rate

APPLICATIONS INFORMATION

The NCP59801 is the member of new family of high output current and low dropout regulators which delivers low quiescent and ground current consumption, good noise and power supply ripple rejection ratio performance. The NCP59801 incorporates EN pin and power good output for simple controlling by MCU or logic. Standard features include current limiting, soft-start feature and thermal protection.

Input Decoupling (C_{IN})

It is recommended to connect at least 4.7 μF ceramic X5R or X7R capacitor between IN and GND pin of the device. This capacitor will provide a low impedance path for any unwanted AC signals or noise superimposed onto constant input voltage. The good input capacitor will limit the influence of input trace inductances and source resistance during sudden load current changes. Higher capacitance and lower ESR capacitors will improve the overall line transient response.

Output Decoupling (C_{OUT})

The NCP59801 does not require a minimum Equivalent Series Resistance (ESR) for the output capacitor. The device is designed to be stable with standard ceramics capacitors with values of 2.2 μF or greater. For the best performance and stability under all conditions (temperature, output current load etc.) is recommended to use 4.7 μF or higher capacitor. The X5R and X7R types have the lowest capacitance variations over temperature thus they are suitable. Please note that too high output capacity (for example 100 μF and more) may cause instability under some conditions, especially under very light load condition.

Power Good Output Connection

The NCP59801 include Power Good functionality for better interfacing to MCU system. Power Good output is open collector type, capable to sink up to 10 mA. Recommended operating current is between 10 μA and 1 mA to obtain low saturation voltage. External pull-up resistor can be connected to any voltage up to 5.5 V (please see Absolute Maximum Ratings table above).

Please note that Power Good internal circuitry is non-functional (disabled) to achieve the lowest possible internal current consumption in case of disabled LDO through Enable input (EN = Low). In this case internal Power Good transistor is open and output logic level is defined by voltage used for pull-up resistor. When Power Good is intended to be used as part of power sequencing functionality, then please connect external pull-up resistor to output voltage of NCP59801. This will allow you to get correct low PG signal when LDO is disabled. Active discharge option is recommended to discharge output capacitors connected to LDO.

Power Good signal is internally delayed avoiding reaction to short glitches in output voltage. Blanking time is about 9 μs when voltage is decreasing from nominal value and about 18 μs when voltage is increasing back to nominal value.

Controlled Output Voltage Slew Rate

The NCP59801 has internal output voltage slew rate control (see Figure 27). After enable event there is about 85 μs dead time required to proper start-up of all internal LDO blocks. When this time ends, output voltage starts to

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raise monotonously from zero to nominal output voltage. Total time need to settle LDO output on nominal voltage is given by voltage option and slew rate. Customer can choose from 4 available options – 5 mV/μs, 10 mV/μs, 30 mV/μs and 100 mV/μs.

In case of adjustable application please remember that selected slew rate is controlled for voltage raise from 0 V to reference voltage. It means that slew rate is multiplied by Vout / Vref ratio.

Power Dissipation and Heat Sinking

The maximum power dissipation supported by the device is dependent upon board design and layout. Mounting pad configuration on the PCB, the board material, and the ambient temperature affect the rate of junction temperature rise for the part. For reliable operation junction temperature should be limited to +125 °C, however device is capable to work up to junction temperature +150 °C (in range from +125 °C to +150 °C parameters are not guaranteed). The maximum power dissipation the NCP59801 can handle is given by:

$$P_{D(MAX)} = \frac{\left[T_{J(MAX)} - T_A\right]}{R_{\theta JA}} \quad \text{(eq. 1)}$$

The power dissipated by the NCP59801 for given application conditions can be calculated from the following equations:

$$P_D \approx V_{IN}\left(I_{GND}(I_{OUT})\right) + I_{OUT}\left(V_{IN} - V_{OUT}\right) \quad \text{(eq. 2)}$$

or

$$V_{IN(MAX)} \approx \frac{P_{D(MAX)} + \left(V_{OUT} \times I_{OUT}\right)}{I_{OUT} + I_{GND}} \quad \text{(eq. 3)}$$

Hints

V_{IN} and GND printed circuit board traces should be as wide as possible. When the impedance of these traces is high, there is a chance to pick up noise or cause the regulator to malfunction. Place external components, especially the output capacitor, as close as possible to the NCP59801, and make traces as short as possible.

Adjustable Version

In case customer needs non-standard / special voltage option, but output noise is critical too, there is one option. In such case customer can use fixed version and connect external resistor divider between output voltage and SNS pin. Under such condition, original fixed voltage becomes reference voltage for resistor divider and feedback loop. Output voltage can be equal or higher than original fixed option, while possible range is from 0.6 V up to 5.0 V. Figure 28 shows how to add external resistors to increase output voltage above fixed value.

Output voltage is then given by equation

$$V_{OUT} = V_{FIX} * (1 + R/R2) \quad \text{(eq. 4)}$$

where V_{FIX} is voltage of original fixed version (from 0.6 V up to 5.0 V) or adjustable version (0.6 V). Do not operate the device at output voltage about 5.2 V, as device can be damaged.

Typical current flowing into FB pin is below 200 nA (adjustable option), where current flowing into SNS pin is below 900 nA (fixed options). In order to avoid influence of this current to output voltage accuracy, it is recommended use values of R1 and R2 in range from 1 kΩ to 220 kΩ.

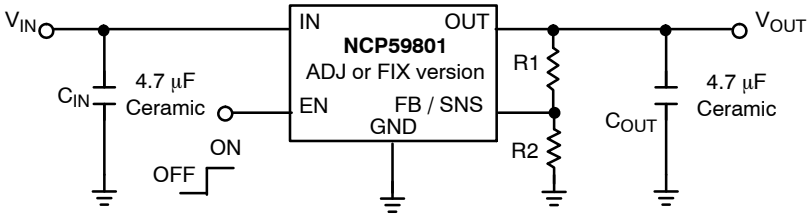

Figure 28. Adjustable Variant Application

Please note that output noise is amplified by V_{OUT} / V_{FIX} or V_{OUT} / V_{FB} ratio. For example, if original 0.6 V adjustable variant is used to create non-standard 3.6 V output voltage, output noise is increased 3.6 / 0.6 = 6 times and real noise value will be 6 * 10 μVrms = 60 μVrms. For noise sensitive applications it is recommended to use as high fixed variant as possible – for example in case above it is better to use 3.3 V fixed variant to create 3.6 V output voltage, as output noise will be amplified only 3.6 / 3.3 = 1.09x (10.9 μVrms).

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ORDERING INFORMATION

Device Part Number*	Voltage Option	Marking	Option	Package	Shipping†
NCP59801CMTWADJTAG	ADJ	AM	With Active Output Discharge, Slew Rate 5 mV/μs	WDFNW6 2x2 (Pb-Free)	3000 / Tape & Reel
NCP59801CMLADJTCG	ADJ	P9801 ADJ	With Active Output Discharge, Slew Rate 5 mV/μs	DFNW8 3x3 (Pb-Free)	3000 / Tape & Reel
NCP59801CML180TCG	1.8 V	P9801 180	With Active Output Discharge, Slew Rate 5 mV/μs	DFNW8 3x3 (Pb-Free)	3000 / Tape & Reel
NCP59801CML330TCG	3.3 V	P9801 330	With Active Output Discharge, Slew Rate 5 mV/μs	DFNW8 3x3 (Pb-Free)	3000 / Tape & Reel

* Other voltage options and slew rate options (D / E / F) upon request.

† 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.

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REVISION HISTORY

Revision	Description of Changes	Date
1	Controlled Output Voltage Slew Rate section updated and made minor formatting updates across the document.	9/17/2026

This document has undergone updates prior to the inclusion of this revision history table. The changes tracked here only reflect updates made on the noted approval dates.

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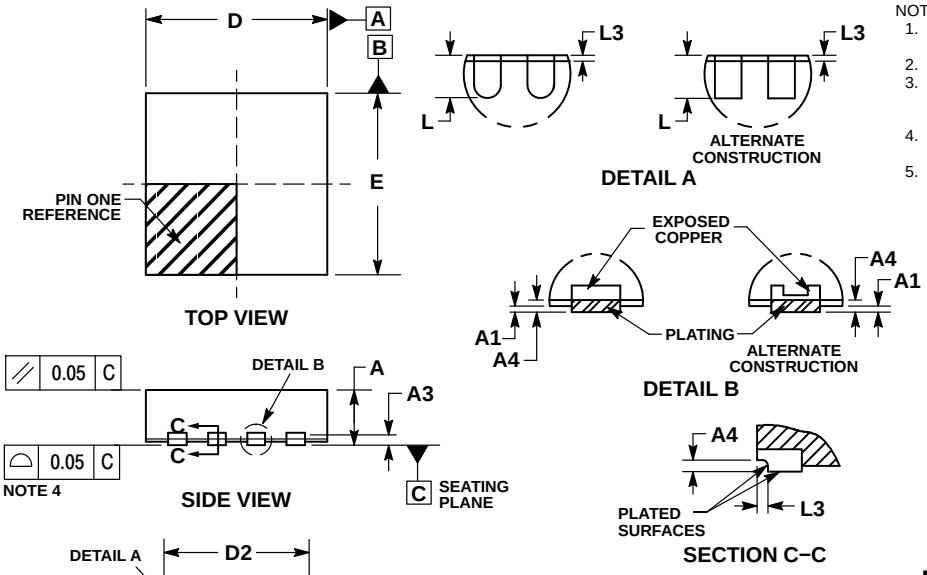
SCALE 2:1

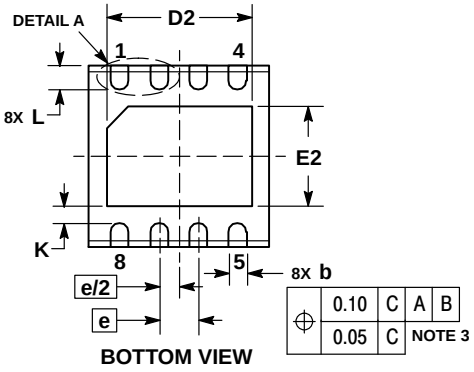
DFNW8 3x3, 0.65P
CASE 507AD
ISSUE A

DATE 15 JUN 2018

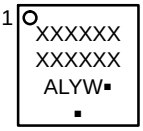


NOTES:
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.30mm FROM THE TERMINAL TIP.
4. COPLANARITY APPLIES TO THE EXPOSED PAD AS WELL AS THE TERMINALS.
5. THIS DEVICE CONTAINS WETTABLE FLANK DESIGN FEATURE TO AID IN FILLET FORMATION ON THE LEADS DURING MOUNTING.

	MILLIMETERS		
DIM	MIN	NOM	MAX
A	0.80	0.90	1.00
A1	−−−	−−−	0.05
A3		0.20 REF	
A4	0.10	−−−	−−−
b	0.25	0.30	0.35
D	2.90	3.00	3.10
D2	2.30	2.40	2.50
E	2.90	3.00	3.10
E2	1.55	1.65	1.75
e		0.65 BSC	
K		0.28 REF	
L	0.30	0.40	0.50
L3		0.05 REF	



GENERIC MARKING DIAGRAM*

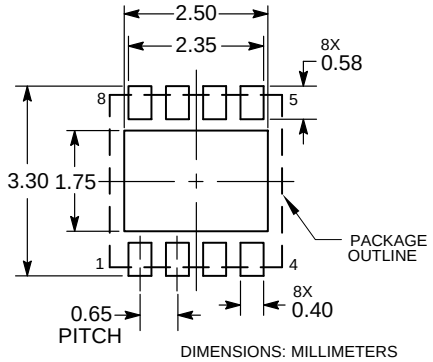


XXXXXX = Specific Device Code
A = Assembly Location
L = Wafer Lot
Y = Year
W = Work Week
▪ = Pb−Free Package

(Note: Microdot may be in either location)

*This information is generic. Please refer to device data sheet for actual part marking. Pb−Free indicator, “G” or microdot “ ▪”, may or may not be present. Some products may not follow the Generic Marking.

RECOMMENDED SOLDERING FOOTPRINT*



DIMENSIONS: MILLIMETERS

*For additional information on our Pb−Free strategy and soldering details, please download the **onsemi** Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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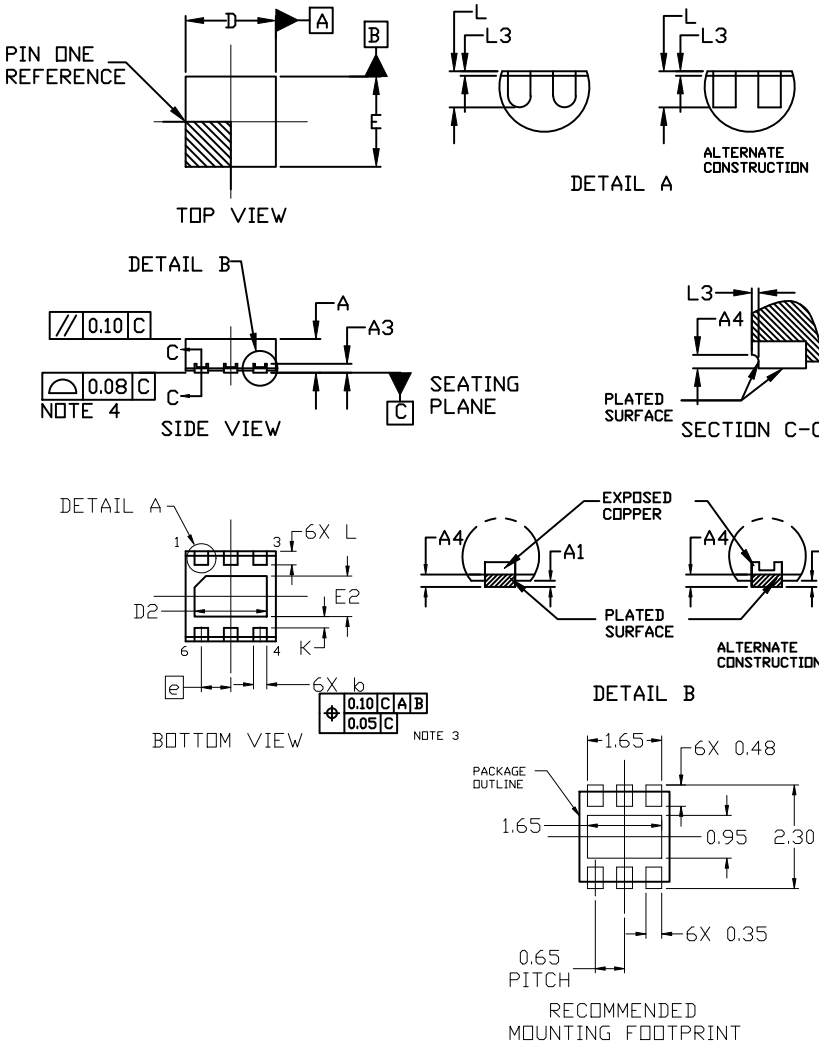
WDFNW6 2x2, 0.65P
CASE 511DW
ISSUE B

DATE 15 JUN 2018



SCALE 4:1



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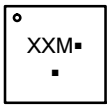
4. COPLANARITY APPLIES TO THE EXPOSED PAD AS WELL AS THE TERMINALS.
5. THIS DEVICE CONTAINS WETTABLE FLANK DESIGN FEATURES TO AID IN FILLET FORMATION ON THE LEADS DURING MOUNTING.

DIM	MILLIMETERS		
	MIN.	NOM.	MAX.
A	0.70	0.75	0.80
A1	---	---	0.05
A3	0.20 REF		
A4	0.10	---	---
b	0.25	0.30	0.35
D	1.90	2.00	2.10
D2	1.50	1.60	1.70
E	1.90	2.00	2.10
E2	0.80	0.90	1.00
e	0.65 BSC		
K	0.25 REF		
L	0.25	0.30	0.35
L3	0.05 REF		

GENERIC MARKING DIAGRAM*



M = Month Code
▪ = Pb−Free Package

(Note: Microdot may be in either location)

*This information is generic. Please refer to device data sheet for actual part marking. Pb−Free indicator, “G” or microdot “ ▪”, may or may not be present. Some products may not follow the Generic Marking.

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