

LDO Regulator, 100 mA, 18 V, 1 mA IQ, with PG

NCP711

The NCP711 device is based on unique combination of features – very low quiescent current, fast transient response and high input and output voltage ranges. The NCP711 is CMOS LDO regulator designed for up to 18 V input voltage and 100 mA output current. Quiescent current of only 1 μA makes this device ideal solution for battery–powered, always–on systems. Several fixed output voltage versions are available as well as the adjustable version.

The device (version B) implements power good circuit (PG) which indicates that output voltage is in regulation. This signal could be used for power sequencing or as a microcontroller reset.

Internal short circuit and over temperature protections saves the device against overload conditions.

Features

- Operating Input Voltage Range: 2.7 V to 18 V
- Output Voltage: 1.2 V to 17 V
- Capable of Sourcing 140 mA Peak Output Current
- Low Shutdown Current: 100 nA typ.
- Very Low Quiescent Current: 1 µA typ.
- Low Dropout: 215 mV typ. at 100 mA
- Output Voltage Accuracy ±1%
- Power Good Output (Version B)
- Stable with Small 1 μF Ceramic Capacitors
- Built-in Soft Start Circuit to Suppress Inrush Current
- Over-Current and Thermal Shutdown Protections
- Available in Small TSOP-5 and WDFN6 (2x2) Packages
- These Devices are Pb-Free and are RoHS Compliant

Typical Applications

- Battery Power Tools and Equipment
- Home Automation
- RF Devices
- Metering
- Remote Control Devices
- White Goods

MARKING DIAGRAMS



TSOP-5 CASE 483 SN SUFFIX



XXX = Specific Device Code

A = Assembly Location

Y = Year

W = Work Week

= Pb-Free Package

(Note: Microdot may be in either location)



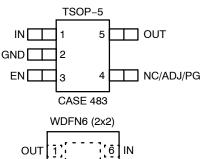
WDFN6 (2x2) CASE 511BR MT SUFFIX

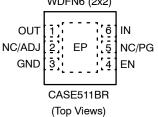


XX = Specific Device Code

M = Date Code

PIN ASSIGNMENTS



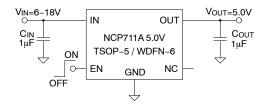


ORDERING INFORMATION

See detailed ordering and shipping information on page 9 of this data sheet.

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TYPICAL APPLICATION SCHEMATICS



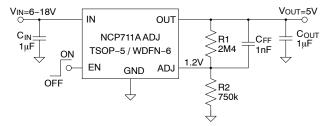
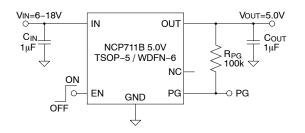


Figure 1. Fixed Output Voltage Application (No PG)

Figure 2. Adjustable Output Voltage Application (No PG)



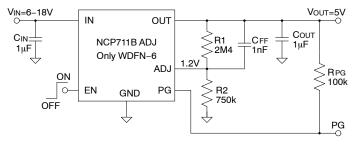
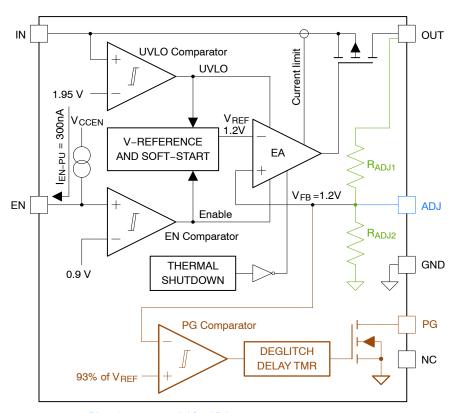


Figure 3. Fixed Output Voltage Application with PG

Figure 4. Adjustable Output Voltage Application with PG

$$V_{OUT} = V_{ADJ} \cdot \left(1 + \frac{R_1}{R_2}\right) + I_{ADJ} \cdot R_1$$

SIMPLIFIED BLOCK DIAGRAMS



Note: Blue objects are valid for ADJ version Green objects are valid for FIX version Brown objects are valid for B version (with PG)

Figure 5. Internal Block Diagram

PIN DESCRIPTION

Pin No. TSOP-5	Pin No. WDFN-6	Pin Name	Description
1	6	IN	Power supply input pin.
2	3	GND	Ground pin.
5	1	OUT	LDO output pin.
3	4	EN	Enable input pin (high – enabled, low – disabled). If this pin is connected to IN pin or if it is left unconnected (pull–up resistor is not required) the device is enabled.
4 (Note 1)	2	ADJ	Adjust input pin. Connect it to the output resistor divider or directly to the OUT pin.
4 (Note 1)	5	PG	Power good output pin. Could be left unconnected or could be connected to GND if not needed. High level for power ok, low level for fail.
4 (Note 1)	2, 5	NC	Not internally connected. This pin can be tied to the ground plane to improve thermal dissipation.
NA	EP	EPAD	Connect the exposed pad to GND.

^{1.} Pin function depends on device version.

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
VIN Voltage (Note 2)	V _{IN}	-0.3 to 22	٧
VOUT Voltage	V _{OUT}	-0.3 to [(V _{IN} + 0.3) or 22 V; whichever is lower]	V
EN Voltage	V _{EN}	-0.3 to (V _{IN} + 0.3)	V
ADJ Voltage	V _{FB/ADJ}	-0.3 to 5.5	٧
PG Voltage	V _{PG}	-0.3 to (V _{IN} + 0.3)	V
Output Current	Гоит	Internally limited	mA
PG Current	I _{PG}	3	mA
Maximum Junction Temperature	T _{J(MAX)}	150	°C
Storage Temperature	T _{STG}	-55 to 150	°C
ESD Capability, Human Body Model (Note 3)	ESD _{HBM}	2000	V
ESD Capability, Charged Device Model (Note 3)	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.

- 2. Refer to ELECTRICAL CHĂRACTERISTICS and APPLICATION INFORMATION for Safe Operating Area.
- This device series incorporates ESD protection and is tested by the following methods: ESD Human Body Model tested per ANSI/ESDA/JEDEC JS-001, EIA/JESD22-A114 ESD Charged Device Model tested per ANSI/ESDA/JEDEC JS-002, EIA/JESD22-C101

THERMAL CHARACTERISTICS (Note 4)

Characteristic	Symbol	WDFN6 2x2	TSOP-5	Unit
Thermal Resistance, Junction-to-Air	R _{thJA}	67	178	°C/W
Thermal Resistance, Junction-to-Case (top)	R _{thJCt}	89	93	°C/W
Thermal Resistance, Junction-to-Case (bottom)	R _{thJCb}	11	N/A	°C/W
Thermal Resistance, Junction-to-Board (top)	R _{thJBt}	44	53	°C/W
Thermal Characterization Parameter, Junction-to-Case (top)	Psi _{JCt}	4.6	18	°C/W
Thermal Characterization Parameter, Junction-to-Board [FEM]	Psi _{JB}	44	53	°C/W

^{4.} Measured according to JEDEC board specification (board 1S2P, Cu layer thickness 1 oz, Cu area 650 mm², no airflow). Detailed description of the board can be found in JESD51-7.

ELECTRICAL CHARACTERISTICS ($V_{IN} = V_{OUT-NOM} + 1 \text{ V}$ and $V_{IN} \ge 2.7 \text{ V}$, $V_{EN} = 1.2 \text{ V}$, $I_{OUT} = 1 \text{ mA}$, $C_{IN} = C_{OUT} = 1.0 \ \mu\text{F}$ (effective capacitance – Note 5), $T_J = -40 \ \text{C}$ to $125 \ \text{C}$, ADJ tied to OUT, unless otherwise specified) (Note 6)

Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
Recommended Input Voltage		V _{IN}	2.7	-	18	V
Output Voltage Accuracy	$T_J = -40^{\circ}\text{C to } +85^{\circ}\text{C}$	V _{OUT}	-1	-	1	%
	$T_{J} = -40^{\circ}\text{C to } +125^{\circ}\text{C}$		-1	-	2	
ADJ Reference Voltage	ADJ version only	V_{ADJ}	-	1.2	-	٧
ADJ Input Current	V _{ADJ} = 1.2 V	I_{ADJ}	-0.1	0.01	0.1	μΑ
Line Regulation	$V_{IN} = V_{OUT-NOM} + 1 \text{ V to } 18 \text{ V and } V_{IN} \ge 2.7 \text{ V}$	$\Delta V_{O(\Delta VI)}$	-	-	0.2	%V _{OUT}
Load Regulation	I _{OUT} = 0.1 mA to 100 mA	$\Delta V_{O(\Delta IO)}$	-	-	0.4	%V _{OUT}
Quiescent Current (version A)	$V_{IN} = V_{OUT-NOM} + 1 \text{ V to } 18 \text{ V}, I_{OUT} = 0 \text{ mA}$	IQ	-	1.3	2.5	μΑ
Quiescent Current (version B)	$V_{IN} = V_{OUT-NOM} + 1 \text{ V to } 18 \text{ V}, I_{OUT} = 0 \text{ mA}$		-	1.8	3.0	
Ground Current	I _{OUT} = 100 mA	I _{GND}	-	325	450	μΑ
Shutdown Current (Note 10)	V _{EN} = 0 V, I _{OUT} = 0 mA, V _{IN} = 18 V	I _{SHDN}	-	0.35	1.5	μΑ
Output Current Limit	V _{OUT} = V _{OUT-NOM} - 100 mV	I _{OLIM}	140	250	450	mA
Short Circuit Current	V _{OUT} = 0 V	I _{osc}	140	250	450	mA
Dropout Voltage (Note 7)	I _{OUT} = 100 mA	V_{DO}	-	215	355	mV

ELECTRICAL CHARACTERISTICS ($V_{IN} = V_{OUT-NOM} + 1$ V and $V_{IN} \ge 2.7$ V, $V_{EN} = 1.2$ V, $I_{OUT} = 1$ mA, $C_{IN} = C_{OUT} = 1.0$ μ F (effective capacitance – Note 5), $T_J = -40^{\circ}$ C to 125°C, ADJ tied to OUT, unless otherwise specified) (Note 6) (continued)

Parameter	Test Conditions		Symbol	Min	Тур	Max	Unit
Power Supply Ripple Rejection	V _{IN} = V _{OUT-NOM} + 2 V	10 Hz	PSRR	-	80	-	dB
	I _{OUT} = 10 mA	10 kHz		-	70	-	
		100 kHz		-	42	-	
		1 MHz		-	48	-	
Output Noise	f = 10 Hz to 100 kHz, V _{OUT-}	_{NOM} = 5.0 V	V _N	-	240	-	μV_{RMS}
EN Threshold	V _{EN} rising		V_{EN-TH}	0.7	0.9	1.05	V
EN Hysteresis	V _{EN} falling		V _{EN-HY}	0.01	0.1	0.2	V
EN Internal Pull-up Current	V _{EN} = 1 V, V _{IN} = 5.5 V		I _{EN-PU}	0.01	0.3	1	μΑ
EN Input Leakage Current	V _{EN} = 18 V, V _{IN} = 18 V		I _{EN-LK}	-1	0.05	1	μΑ
Start-up time (Note 8)	V _{OUT-NOM} ≤ 3.3 V		t _{START}	100	250	500	μs
	V _{OUT-NOM} > 3.3 V			300	600	1000	
Internal UVLO Threshold	Ramp V _{IN} up until output is turned on		V _{IUL-TH}	1.6	1.95	2.6	٧
Internal UVLO Hysteresis	Ramp V _{IN} down until output is turned off		V _{IUL-HY}	0.05	0.2	0.3	٧
PG Threshold (Note 9)	V _{OUT} falling		V_{PG-TH}	90	93	96	%
PG Hysteresis (Note 9)	V _{OUT} rising		V_{PG-HY}	0.1	2	4	%
PG Deglitch Time (Note 9)			t _{PG-DG}	75	160	270	μs
PG Delay Time (Note 9)			t _{PG-DLY}	120	320	600	μs
PG Output Low Level Voltage (Note 9)	I _{PG} = 1 mA		V_{PG-OL}	-	0.2	0.4	٧
PG Output Leakage Current (Note 9)	V _{PG} = 18 V		I _{PG-LK}	-	0.01	1	μΑ
Thermal Shutdown Temperature	Temperature rising from $T_J = +25^{\circ}C$		T _{SD}	-	165	-	°C
Thermal Shutdown Hysteresis	Temperature falling from T _{SD}		T _{SDH}	-	20	-	°C

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.} Effective capacitance, including the effect of DC bias, tolerance and temperature. See the Application Information section for more information.

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.

^{7.} Dropout measured when the output voltage falls 100 mV below the nominal output voltage. Limits are valid for all voltage versions.

^{8.} Startup time is the time from EN assertion to point when output voltage is equal to 95% of V_{OUT-NOM}.

^{9.} Applicable only to version B (device option with power good output). PG threshold and PG hysteresis are expressed in percentage of nominal output voltage.

^{10.} Shutdown current includes EN Internal Pull-up Current.

TYPICAL CHARACTERISTICS

 $V_{IN} = V_{OUT-NOM} + 1 \text{ V and } V_{IN} \geq 2.7 \text{ V}, V_{EN} = 1.2 \text{ V}, I_{OUT} = 1 \text{ mA}, C_{OUT} = 1.0 \text{ } \mu\text{F}, ADJ \text{ tied to OUT, } T_J = 25^{\circ}\text{C}, \text{ unless otherwise specified } T_J = 1.2 \text{ V}, I_{OUT} = 1.2 \text{ V}, I_{OUT} = 1.0 \text{ } \mu\text{F}, ADJ \text{ tied to OUT, } T_J = 1.2 \text{ V}, I_{OUT} = 1.2 \text{ V}, I_{O$

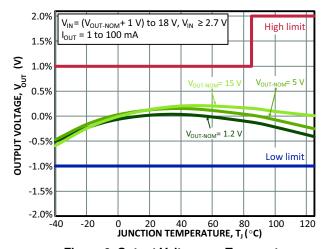


Figure 6. Output Voltage vs. Temperature

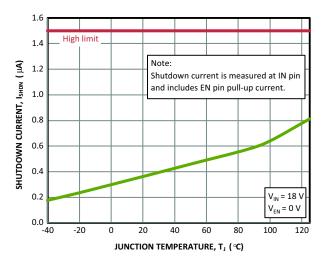


Figure 8. Shutdown Current vs. Temperature

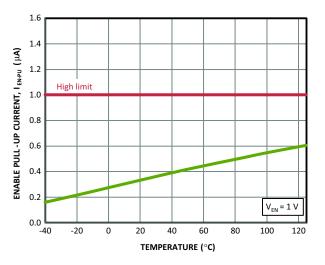


Figure 10. Enable Internal Pull-Up Current vs. Temperature

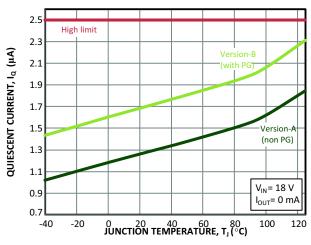


Figure 7. Quiescent Current vs. Temperature

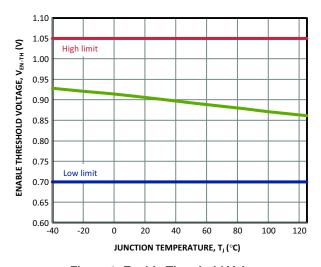


Figure 9. Enable Threshold Voltage vs.
Temperature

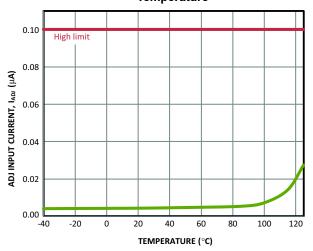


Figure 11. ADJ Input Current vs. Temperature

TYPICAL CHARACTERISTICS

 $V_{IN} = V_{OUT-NOM} + 1 \text{ V and } V_{IN} \geq 2.7 \text{ V, } V_{EN} = 1.2 \text{ V, } I_{OUT} = 1 \text{ mA, } C_{OUT} = 1.0 \text{ } \mu\text{F, ADJ tied to OUT, } T_{J} = 25^{\circ}\text{C, unless otherwise specified}$

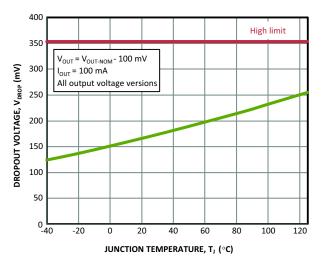
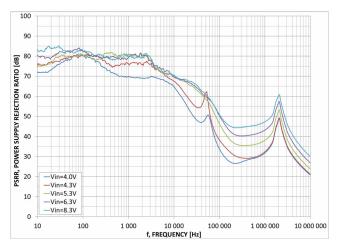


Figure 12. Dropout Voltage vs. Temperature

TYPICAL CHARACTERISTICS

 $V_{IN} = V_{OUT-NOM} + 1~V~\text{and}~V_{IN} \geq 2.7~V,~V_{EN} = 1.2~V,~I_{OUT} = 1~\text{mA},~C_{OUT} = 1.0~\mu\text{F},~\text{ADJ tied to OUT},~T_{J} = 25^{\circ}\text{C},~\text{unless otherwise specified}$



90 POWER SUPPLY REJECTION RATIO [dB] 60 40 30 PSRR, 20 -Cout=2u -Cout=10u -Cout=22u 10 -Cout=47u 10 100 1 000 10 000 100 000 1 000 000 10 000 000 f, FREQUENCY [Hz]

Figure 13. PSRR – FIX–3.3 V, C_{OUT} = 1 μ F, I_{OUT} = 100 mA

Figure 14. PSRR – FIX–3.3 V, V_{IN} = 4.3 V, I_{OUT} = 100 mA

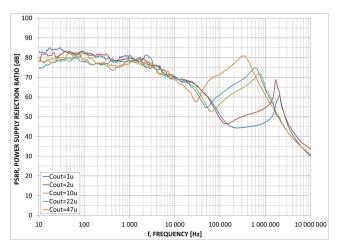


Figure 15. PSRR – FIX–3.3 V, V_{IN} = 8.3 V, I_{OUT} = 100 mA

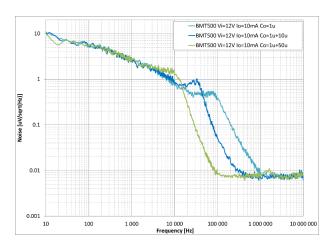


Figure 16. Noise – FIX – 5.0 V, I_{OUT} = 10 mA, Different C_{OUT}

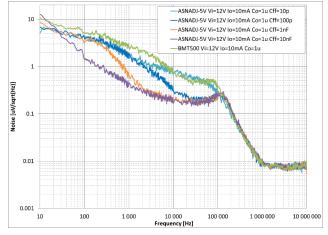


Figure 17. Noise – ADJ-set-5.0 V with Different C_{FF} and FIX – 5.0 V

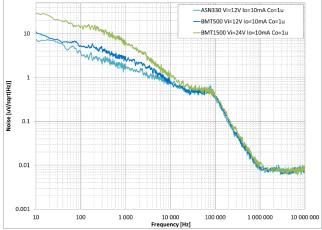


Figure 18. Noise – FIX, I_{OUT} = 10 mA, C_{OUT} = 1 μ F, Different V_{OUT}

ORDERING INFORMATION

Part Number	Marking	Voltage Option (V _{OUT-NOM})	Version	Package	Shipping	
NCP711ASNADJT1G	GDA	ADJ				
NCP711ASN300T1G	GDC	3.0 V	W/Ho and DO	TSOP-5	3000 / Tape & Reel	
NCP711ASN330T1G	GDD	3.3 V	Without PG	(Pb-Free)		
NCP711ASN500T1G	GDE	5.0 V				
NCP711BMTADJTBG	PA	ADJ				
NCP711BMT300TBG	PC	3.0 V	With PG WDFN6 2x2 (Pb-Free)		0000 / Tara 9 Dayl	
NCP711BMT330TBG	PD	3.3 V			3000 / Tape & Reel	
NCP711BMT500TBG	PE	5.0 V				

NOTE: To order other package, voltage version or PG / non PG variant, please contact your ON Semiconductor sales representative.



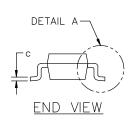
TSOP-5 3.00x1.50x0.95, 0.95P **CASE 483**

ISSUE P

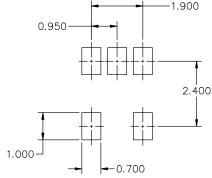
DATE 01 APR 2024

NOTES:

- DIMENSIONING AND TOLERANCING CONFORM TO ASME 1. Y14.5-2018.
- 2.
- ALL DIMENSION ARE IN MILLIMETERS (ANGLES IN DEGREES). MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. 3. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
- DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OF GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.15 PER SIDE. DIMENSION D.
- OPTIONAL CONSTRUCTION: AN ADDITIONAL TRIMMED LEAD IS ALLOWED IN THIS LOCATION. TRIMMED LEAD NOT TO EXTEND MORE THAN 0.2 FROM BODY.



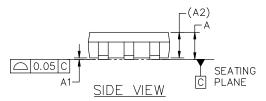
DIM	MILLIMETERS				
ININ	MIN.	NOM.	MAX.		
А	0.900	1.000	1.100		
A1	0.010	0.055	0.100		
A2	0	.950 REF	₹.		
b	0.250	0.375	0.500		
С	0.100	0.180	0.260		
D	2.850	3.000	3.150		
E	2.500	2.750	3.000		
E1	1.350	1.500	1.650		
е	0.950 BSC				
L	0.200	0.400	0.600		
Θ	0.	5°	10°		

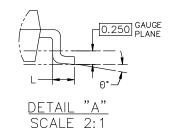


RECOMMENDED MOUNTING FOOTPRINT*

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

NOTE 5 В Ė1 PIN 1 **IDENTIFIER** ΙAŀ TOP VIEW





GENERIC MARKING DIAGRAM*





Discrete/Logic

= Date Code

XXX = Specific Device Code

= Pb-Free Package

XXX = Specific Device Code

= Assembly Location

= Year W = Work Week

= Pb-Free Package

(Note: Microdot may be in either location)

М

*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.

DOCUMENT NUMBER:

98ARB18753C

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DESCRIPTION:

TSOP-5 3.00x1.50x0.95, 0.95P

PAGE 1 OF 1

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PIN 1

REFERENCE

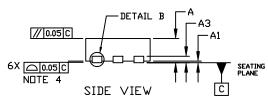
WDFN6 2x2, 0.65P

CASE 511BR ISSUE C

DATE 01 DEC 2021

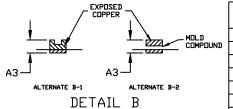
NOTES:

- 1. DIMENSION AND TOLERANCING PER ASME Y14.5, 2009.
- 2. CONTROLLING DIMENSION: MILLIMETERS
- DIMENSION 6 APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.30 MM FROM THE TERMINAL TIP.
- COPLANARITY APPLIES TO THE EXPOSED PAD AS WELL AS THE TERMINALS.



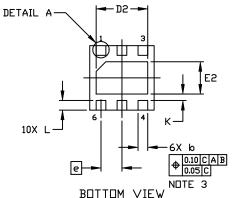
TOP VIEW

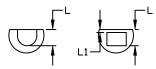
В



ALTERNATE CONSTRUCTION

MILLIMETERS DIM MIN. NDM. 0.70 0.75 0.80 0.05 0.00 A1 АЗ 0.20 REF 0.25 0.30 0.35 b D 1.90 2.00 2.10 1.70 1.50 1.60 П2 Ε 1.90 2.00 2.10 E2 0.90 1.00 1.10 0.65 BSC 0.20 REF K 0.20 0.30 0.40 L1 0.15

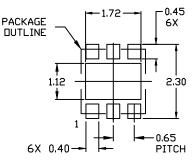




ALTERNATE A-1 ALTERNATE A-2

DETAIL A

ALTERNATE CONSTRUCTIONS



RECOMMENDED MOUNTING FOOTPRINT

For additional information on our Pb-Free strategy and soldering details, please download the DN Semiconductor Soldering and Mounting Techniques Reference Manual, SDL DERRM/D.

GENERIC MARKING DIAGRAM*



XX = Specific Device CodeM = Date Code

*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.

DOCUMENT NUMBER:	98AON55829E	Electronic versions are uncontrolled except when accessed directly from the Document Repo Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.				
DESCRIPTION:	WDFN6 2X2, 0.65P		PAGE 1 OF 1			

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