Low Quiescent Current, Programmable Delay Time, Supervisory Circuit

NCP308, NCV308

The NCP308 series is one of the **onsemi** Supervisory circuit IC families. It is optimized to monitor system voltages from 0.405 V to 5.5 V, asserting an active low open−drain $\overline{\text{RESET}}$ output, together with Manual Reset ($\overline{\text{MR}}$) Input. The part comes with both fixed and externally adjustable versions.

Features

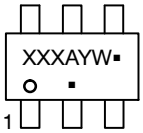
- Wide Supply Voltage Range 1.6 to 5.5 V
- Very Low Quiescent Current 1.6 μA
- Fixed Threshold Voltage Versions for Standard Voltage Rails Including 0.9 V, 1.2 V, 1.25 V, 1.5 V, 1.8 V, 1.9 V, 2.5 V, 2.8 V, 3.0 V, 3.3 V, 5.0 V
- Adjustable Version with Low Threshold Voltage 0.405 V (min)
- High Threshold Voltage Accuracy: 0.31% typ
- Support Manual Reset Input ($\overline{\text{MR}}$)
- Open−Drain $\overline{\text{RESET}}$ Output (Push−pull Output upon Request)
- Flexible Delay Time Programmability: 1.25 ms to 10 s
- Temperature Range: −40°C to +125°C
- Small TSOP−6 and WDFN6 2 x 2 mm, Pb−Free packages
- NCV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC−Q100 Qualified and PPAP Capable
- These are Pb−Free Devices

Typical Applications

- DSP or Microcontroller Applications
- Notebook/Desktop Computers
- PDAs/Hand−Held Products
- Portable/Battery−Powered Products
- FPGA/ASIC Applications

MARKING DIAGRAMS

TSOP−6
CASE 318G



WDFN6
CASE 511BR

XXX, XX= Specific Device Code
A =Assembly Location
Y = Year
W = Work Week
M = Date Code
▪ = Pb−Free Package
(Note: Microdot may be in either location)

ORDERING INFORMATION

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

NOTE: Some of the devices on this data sheet have been **DISCONTINUED**. Please refer to the table on page 9.

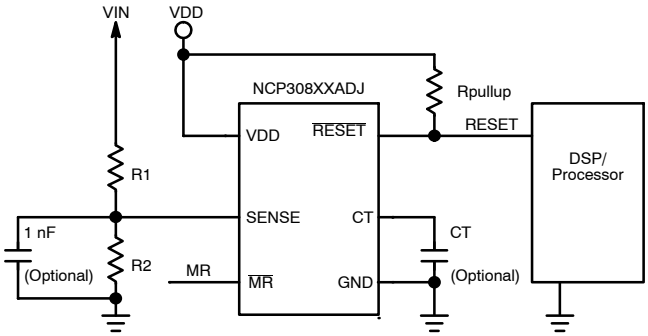


Figure 1. Typical Application Circuit for Adjustable Versions

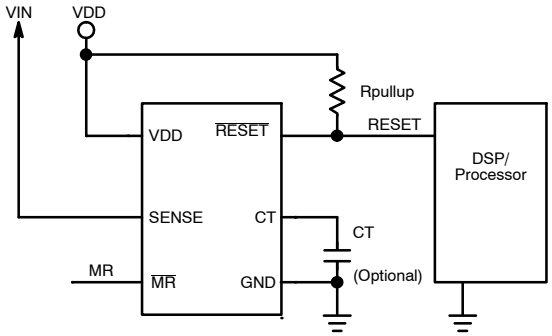


Figure 2. Typical Application Circuit for Fixed Versions

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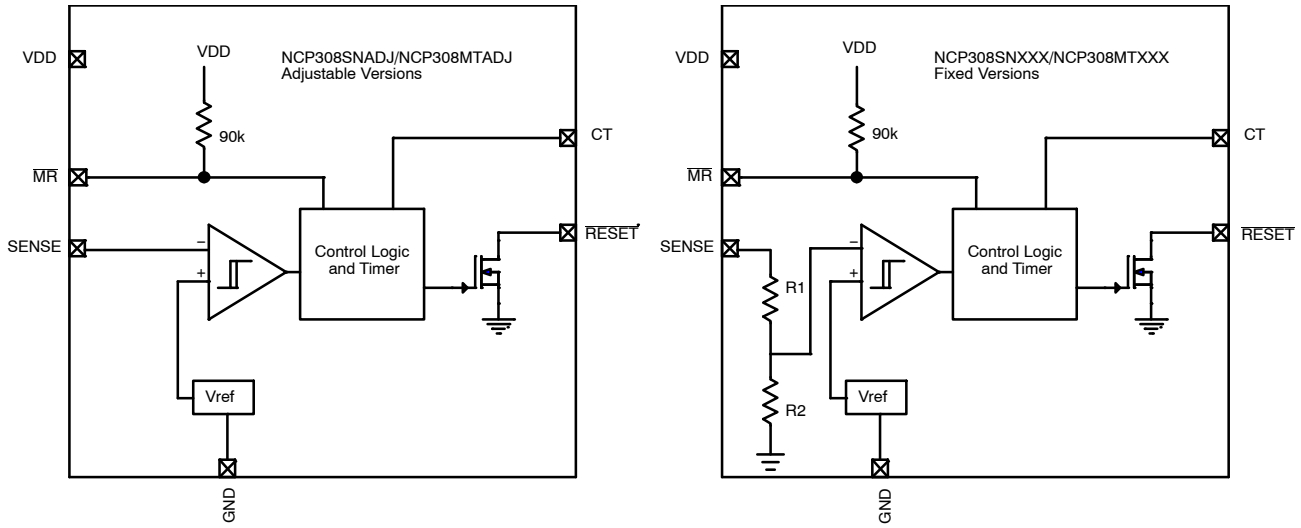

Figure 3. Functional Block Diagrams of Adjustable and Fixed Versions

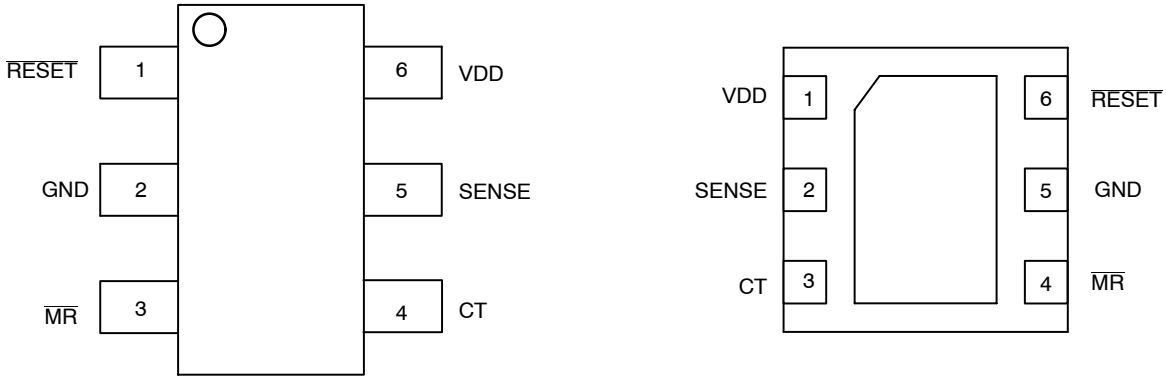

Figure 4. Pin Connections Diagram (Top View)

Table 1. PIN OUT DESCRIPTION

Name	Pin Number		Description
	TSOP−6	WDFN6	
VDD	6	1	**Supply Voltage**. A 0.1uF ceramic capacitor placed close to this pin is helpful for transient and parasitic.
SENSE	5	2	**Sense Input**, this is the voltage to be monitored. If the voltage at this terminal drops below the threshold voltage V_{IT}, then $\overline{\text{RESET}}$ is asserted. SENSE does not necessary monitor VDD, it can monitor any voltage lower than VDD.
CT	4	3	**Reset Delay Time Setting Pin**. Connecting this pin to VDD through a 40 kΩ to 200 kΩ resistor or leaving it open results in fixed reset delay times. Connecting this pin to a ground referenced capacitor (≥ 100 pF) gives a user−programmable reset delay time. See the *Setting Reset Delay Time* section for more information.
$\overline{\text{MR}}$	3	4	**Manual Reset input**, $\overline{\text{MR}}$ low asserts $\overline{\text{RESET}}$. $\overline{\text{MR}}$ is internally tied to VDD by a 90 kΩ pull−up Resistor.
$\overline{\text{RESET}}$	1	6	**$\overline{\text{RESET}}$ Output**, is an Active low open drain N−Channel MOSFET output, it is driven to a low impedance state when $\overline{\text{RESET}}$ is asserted (either the SENSE input is lower than the threshold voltage (V_{IT}) or the $\overline{\text{MR}}$ pin is set to a logic low). $\overline{\text{RESET}}$ will keep low (asserted) for the reset delay time after both SENSE is above V_{IT} and $\overline{\text{MR}}$ is set to a logic high. A pull−up resistor from 10kΩ to 1MΩ should be used on this pin. See Figure 5 for behavior of $\overline{\text{RESET}}$ depends on VDD, SENSE and $\overline{\text{MR}}$ conditions.
GND	2	5	**Ground terminal**. Should be connected to PCB ground reference
EXP PAD	−	Exposed Pad	**Exposed pad**, under WDFN6 package, connect it to ground plane for better thermal dissipation.

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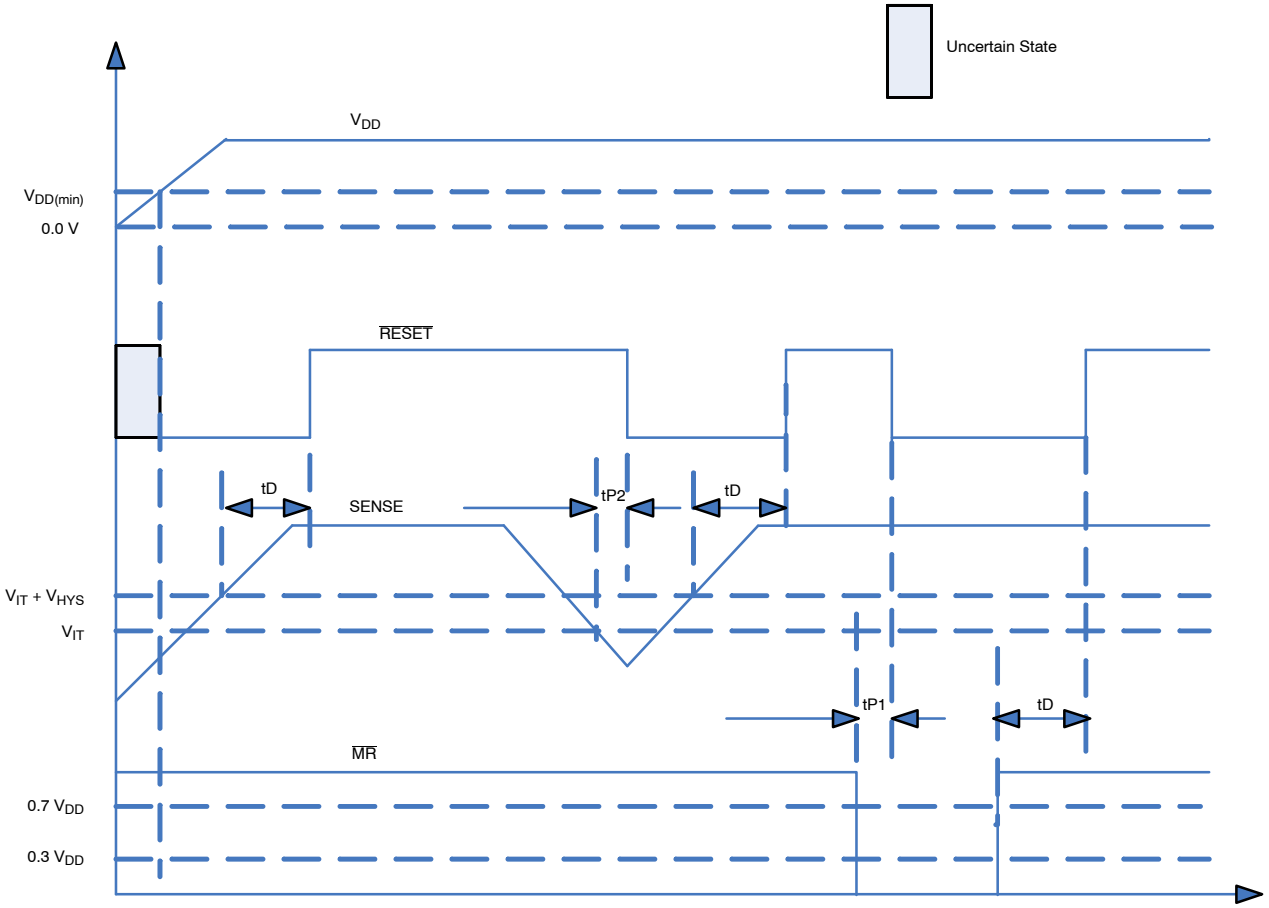

Figure 5. Timing Diagram Showing $\overline{MR}$ and SENSE Reset Timing

Table 2. TRUTH TABLE

$\overline{MR}$	SENSE > V_{IT}	$\overline{RESET}$
L	N	L
L	Y	L
H	N	L
H	Y	H

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Table 3. MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Input voltage range, V_{DD}	V_{DD}	−0.3 to + 6.0	V
CT voltage range V_{CT}, $\overline{RESET}$, $\overline{MR}$ Current through CT pin	I_{CT}	−0.3 to V_{DD} +0.3 ≤ 6.0 10	V mA
SENSE pin voltage		−0.3 to + 8.0	V
$\overline{RESET}$ pin current		5	mA
Thermal Resistance Junction−to−Air TSOP−6 WDFN6	$R_{\theta JA}$	 305 220	°C/W
Human Body Model (HBM) ESD Rating (Note 1)	ESD HBM	2000	V
Machine Model (MM) ESD Rating (Note 1)	ESD MM	100	V
Charged Device Model (CDM) ESD Rating (Note 1)	ESD CDM	500	V
Latch up Current: (Note 2) All pins, except digital pins Digital pins ($\overline{MR}$)	I_{LU}	 ±100 ±10	mA
Storage Temperature Range	T_{STG}	−65 to + 150	°C
Maximum Junction Temperature	T_J	−40 to +150	°C
Moisture Sensitivity (Note 3)	MSL	Level 1	

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. This device series contains ESD protection and passes the following tests:
   Human Body Model (HBM) +/−2.0 kV per JEDEC standard: JESD22−A114
   Machine Model (MM) +/−100 V per JEDEC standard: JESD22−A115
   Charged Device Model (CDM) 500 V per JEDEC standard: JESD22−C101.
2. Latch up Current per JEDEC standard: JESD78 class II.
3. Moisture Sensitivity Level (MSL): 1 per IPC/JEDEC standard: J−STD−020A.

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Table 4. ELECTRICAL CHARACTERISTICS 1.6 V ≤ V_{DD} ≤ 5.5 V, R_{pullup} = 100 kΩ, C_{LRESET} = 50 pF, over operating temperature range (T_J = −40°C to +125°C), unless otherwise specified. Typical values are at T_J = +25°C.

Symbol	Parameter		Conditions	Min	Typ	Max	Unit
V_{DD}	Supply Voltage Range		−40°C < T_J < +125°C	1.6		5.5	V
V_{DD}(min)	Minimum V_{DD} Guaranteed $\overline{\text{RESET}}$ Output Valid (Note 4)				0.5	0.8	V
I_{DD}	Supply Current (Current into VDD pin)		V_{DD} = 3.3V, $\overline{\text{RESET}}$ not asserted $\overline{\text{MR}}$, $\overline{\text{RESET}}$, CT open		1.6	5.0	μA
			V_{DD} = 5.5V, $\overline{\text{RESET}}$ not asserted $\overline{\text{MR}}$, $\overline{\text{RESET}}$, CT open		1.6	6.0	
V_{OL}	Low−level output voltage of $\overline{\text{RESET}}$		1.3V ≤ V_{DD} < 1.6V, I_{OL} = 0.4 mA			0.3	V
			1.6V ≤ V_{DD} ≤ 5.5V, I_{OL} = 1.0 mA			0.4	
V_{IT}%	Negative going SENSE threshold voltage accuracy			−1.75	±0.75	+1.75	%
			T_J = +25°C	−0.31	–	0.31	
			−20°C < T_J < +85°C	−1.0	±0.5	+1.0	
V_{HYS}	Hysteresis on V_{IT}	1.6V≤V_{DD}≤4.2V			1.0	3.0	%V_{IT}
		4.2V≤V_{DD}≤5.5V			1.75	3.75	
R_{MR}	$\overline{\text{MR}}$ Internal pull−up resistance				90		kΩ
I_{SENSE}	Input current at SENSE pin	NCP308XXADJ	V_{SENSE} = V_{IT}		10		nA
		Fixed versions	V_{SENSE} = 5.5 V		110		
I_{OH}	$\overline{\text{RESET}}$ leakage Current		V_{RESET} = 5.5 V, $\overline{\text{RESET}}$ not asserted			300	nA
C_{IN}	Input capacitance, any pin	CT pin	V_{IN} = 0 V to V_{DD}		5		pF
		Other pins	V_{IN} = 0 V to 5.5 V		5		
V_{IL}	$\overline{\text{MR}}$ logic low input			0		0.3 V_{DD}	V
V_{IH}	$\overline{\text{MR}}$ logic high input			0.7 V_{DD}		V_{DD}	V
tw	Input pulse width to assert $\overline{\text{RESET}}$	SENSE	V_{IH} = 1.05 V_{IT}, V_{IL} = 0.95 V_{IT}		20		μs
		$\overline{\text{MR}}$	V_{IH} = 0.7 V_{DD}, V_{IL} = 0.3 V_{DD}		150		ns
t_D	Reset delay time	C_T = Open C_T = V_{DD} C_T = 100 pF C_T = 180 nF	(Guaranteed by design and characterization)		20 300 1.25 1200		ms
t_{P1}	Propagation delay from $\overline{\text{MR}}$	$\overline{\text{MR}}$ to $\overline{\text{RESET}}$	V_{IH} = 0.7 V_{DD}, V_{IL} = 0.3 V_{DD}		150		ns
t_{P2}	Propagation delay from SENSE	SENSE to $\overline{\text{RESET}}$	V_{IH} = 1.05 V_{IT}, V_{IL} = 0.95 V_{IT}		20		μs

4. The lowest supply voltage (V_{DD}) at which $\overline{\text{RESET}}$ becomes active.
5. NCP308XX: XX = MT (WDFN6 package) or SN (TSOP−6 package).

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TYPICAL OPERATING CHARACTERISTICS

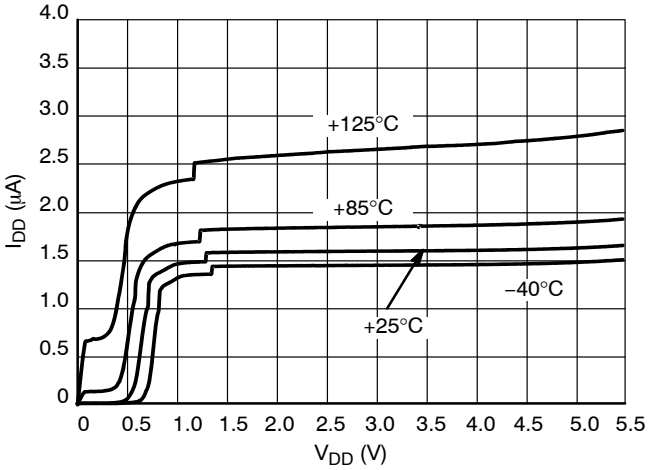

Figure 6. Supply Current vs. Input Voltage

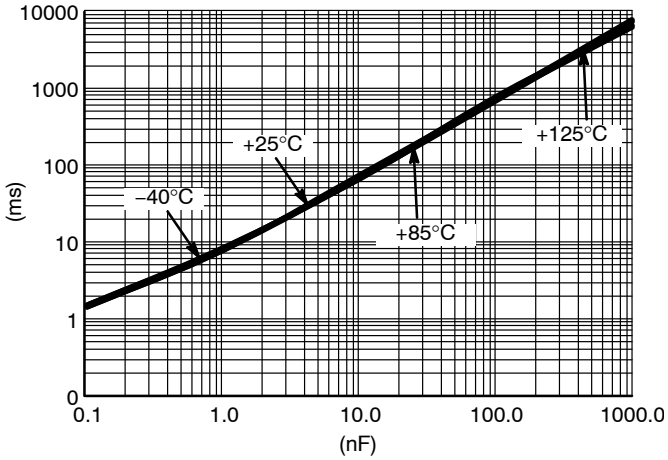

Figure 7. $\overline{\text{RESET}}$ Timeout Period vs. CT

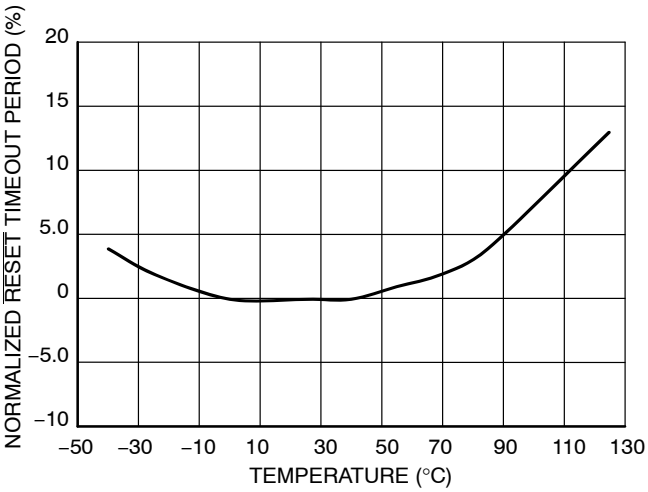

Figure 8. Normalized $\overline{\text{RESET}}$ Timeout Period vs. Temperature

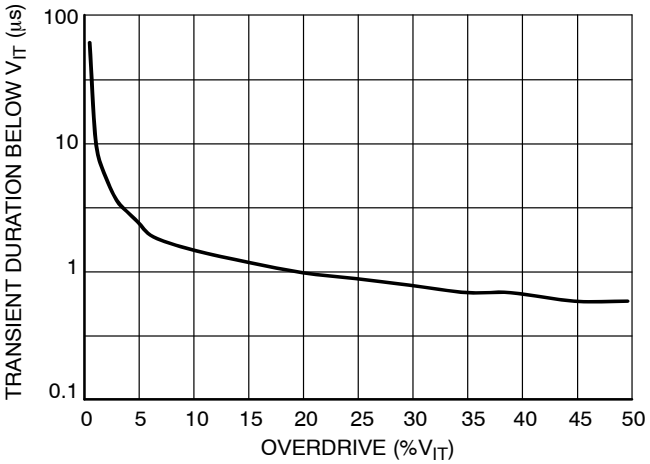

Figure 9. Maximum Transient Duration at Sense vs. Sense Threshold Overdrive Voltage

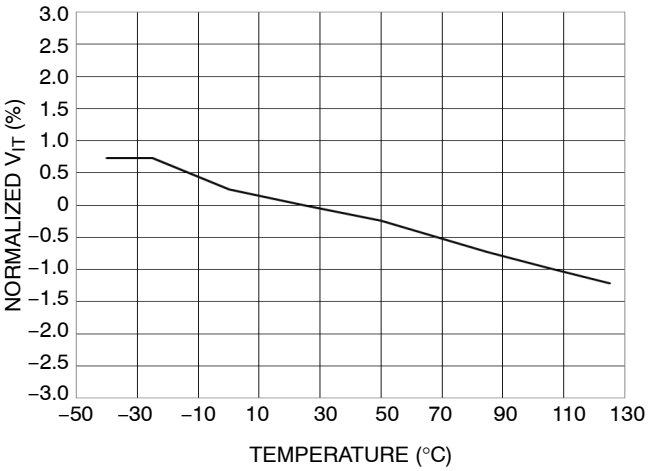

Figure 10. Normalized Sense Threshold Voltage (V_{IT}) vs. Temperature

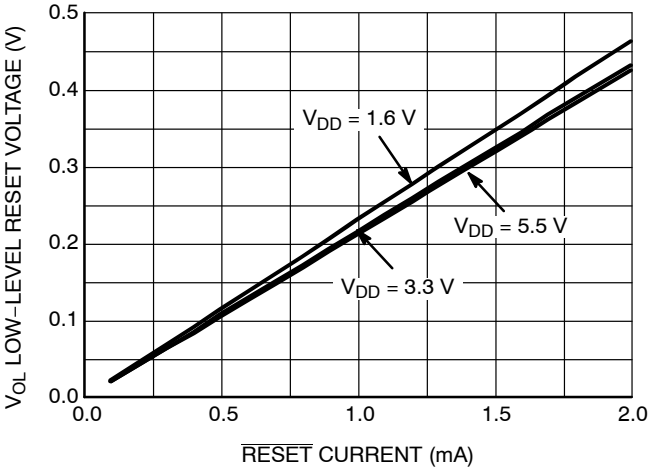

Figure 11. Low−Level $\overline{\text{RESET}}$ Voltage vs. $\overline{\text{RESET}}$ Current

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DETAILED DESCRIPTION

The NCP308 microprocessor supervisory product family is designed to assert a $\overline{\text{RESET}}$ signal when either the SENSE pin voltage drops below V_{IT} or the Manual Reset input ($\overline{\text{MR}}$) is driven low. The $\overline{\text{RESET}}$ output remains asserted for a programmable delay time after both $\overline{\text{MR}}$ and SENSE voltages return above the respective thresholds. A broad range of voltage threshold and reset delay time options are available, allowing NCP308 series to be used in a wide range of applications.

Reset threshold voltages can be factory−set from 0.82 V to 3.3 V or from 4.4 V to 5.0 V, while the NCP308XXADJ can be used for any voltage above 0.405 V using an external resistor divider.

Flexible delay time can be easily got with CT pin according to Table 5:

Table 5. DELAY TIME SETTING TABLE

CT pin Configuration	Delay Time (tD)
CT = VDD	300 ms (fixed)
CT = Open	20 ms (fixed)
Connecting a capacitor between pin CT and GND (Capacitor CT value > 100 pF)	1.25 ms ~ 10 s, depends on capacitor value (Refer to the Setting Reset Delay Time Section)

Output

The $\overline{\text{RESET}}$ output is typically connected to the $\overline{\text{RESET}}$ control pin of a microprocessor. For Open−Drain output versions, a pull−up resistor must be used to hold this line high when $\overline{\text{RESET}}$ is not asserted. The $\overline{\text{RESET}}$ output is active once V_{DD} is over V_{DD}(min), this voltage is much lower than most microprocessors' functional voltage range. $\overline{\text{RESET}}$ remains high as long as SENSE is above its threshold (V_{IT}) and the Manual Reset input ($\overline{\text{MR}}$) is logic high. If either SENSE falls below V_{IT} or $\overline{\text{MR}}$ is driven low, $\overline{\text{RESET}}$ is asserted.

Once $\overline{\text{MR}}$ is again logic high and SENSE is above (V_{IT} + V_{HYS}), the $\overline{\text{RESET}}$ pin goes to a high impedance state after delay time (tD). The open−drain structure of $\overline{\text{RESET}}$ is capable to allow the reset signal for the microprocessor to have a voltage higher than V_{DD} (up to 5.5 V). The pull−up resistor should be no smaller than 10 kΩ as a result of the finite impedance of the $\overline{\text{RESET}}$ line.

SENSE Input

The SENSE input should be connected to the monitored voltage directly. If the voltage on this pin drops below V_{IT}, then $\overline{\text{RESET}}$ is asserted. The comparator has a built−in hysteresis to prevent erratic reset operation. It is good practice to put a 1 nF to 10 nF bypass capacitor on the SENSE input to reduce its sensitivity to transients and layout parasitic.

The NCP308XXADJ can be used to monitor any voltage rail down to 0.405 V by the circuit shown in Figure 12. The new V_{IT}' can be derived from resistor divider network of R1 and R2 by:

$$V_{IT}' = \left(\frac{R1}{R2} + 1\right) \times V_{IT} \qquad \text{(eq. 1)}$$

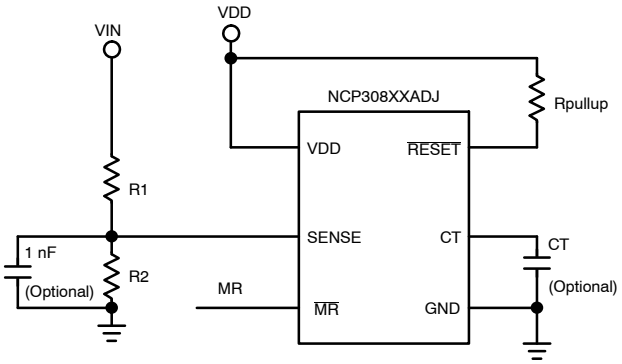

Figure 12. Using NCP308XXADJ to Monitor a User−Defined Threshold Voltage

Manual Reset Input ($\overline{\text{MR}}$)

The Manual Reset input ($\overline{\text{MR}}$) allows a processor or other logic circuits to initiate a reset. A logic low on $\overline{\text{MR}}$ causes $\overline{\text{RESET}}$ to assert. After $\overline{\text{MR}}$ returns to a logic high and SENSE is above its reset threshold, $\overline{\text{RESET}}$ is de−asserted after the delay time set by CT pin. $\overline{\text{MR}}$ is internally tied to V_{DD} by a 90 kΩ resistor so this pin can be left unconnected if $\overline{\text{MR}}$ will not be used.

Figure 13 shows how $\overline{\text{MR}}$ can be used to monitor multiple system voltages (e.g. I/O supply voltage of some DSP/processors should be setup before core voltage, and DSP/processor can only start after both I/O and core voltages setup).

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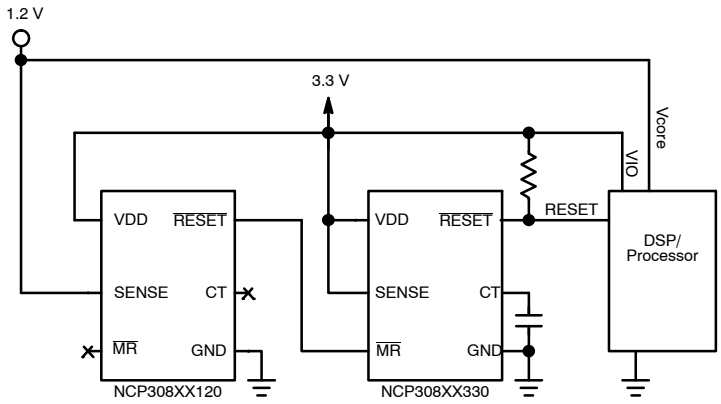

Figure 13. Using $\overline{MR}$ to Monitor Multiple System Voltages

Setting Reset Delay Time

The NCP308 has three options for setting the reset delay time as shown in Table 5. Figure 14 shows the configuration for a fixed 300 ms typical delay time by tying CT to V_{DD}; a resistor from 40 kΩ to 200 kΩ must be used. Figure 15 shows a fixed 20 ms delay time by leaving the CT pin unconnected.

Figure 16 shows a user−defined program time between 1.25 ms and 10 s by connecting a capacitor between CT pin and ground.

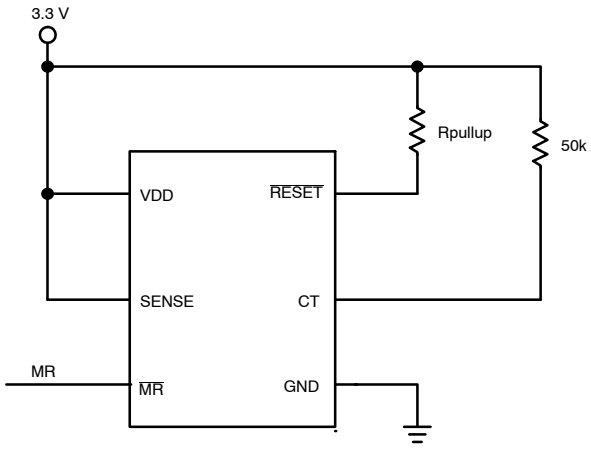

Figure 14. Delay Time Fixed to 300 ms when CT Connected to VDD by Resistor

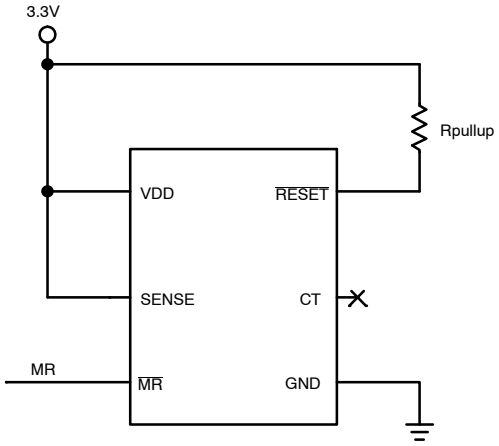

Figure 15. Delay Time Fixed to 20 ms when CT is Open

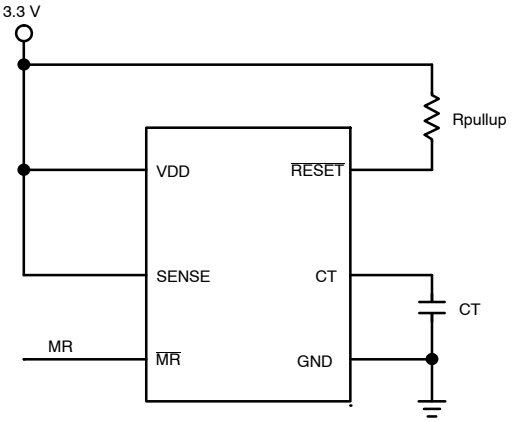

Figure 16. Delay Time Set by Capacitor

The capacitor CT should be ≥ 100 pF for NCP308 to recognize that the capacitor is present. The capacitor value for a given delay time can be calculated using the following equation:

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$$CT(nF) = \left(tD(s) - 0.5 \times 10^{-3}(s)\right) \times 175 \quad \text{(eq. 2)}$$

Parasitic capacitances of CT pin should be considered to avoid reset delay time deviation or error.

Immunity to Sense Pin Voltage Transients

NCP308 is relatively immune to short negative transients on SENSE pin. Sensitivity to transients is dependent on threshold overdrive, as shown in the Maximum Transient Duration at Sense vs. Sense Threshold Overdrive Voltage graph (Figure 9) in Typical Operating Characteristics section.

ORDERING INFORMATION

Device	Threshold Voltage (V_{IT})	Nominal Monitored Voltage	Marking	Package	Shipping†
NCP308MTADJTBG	0.405 V	Adjustable Version	AA	WDFN6 (Pb−Free)	3000 / Tape & Reel
NCP308MT180TBG	1.67 V	1.8 V	AG		
NCP308MT250TBG	2.33 V	2.5 V	AJ		
NCP308MT300TBG	2.79 V	3.0 V	AL		
NCP308MT330TBG	3.07 V	3.3 V	AM		
NCV308SNADJT1G*	0.405 V	Adjustable Version	VDJ	TSOP−6 (Pb−Free)	3000 / Tape & Reel
NCV308SN330T1G*	3.07 V	3.3 V	33A		

DISCONTINUED (Note 6)

NCP308SNADJT1G	0.405 V	Adjustable Version	ADJ	TSOP−6 (Pb−Free)	3000 / Tape & Reel
NCP308SN090T1G	0.84 V	0.9 V	090		
NCP308SN120T1G	1.12 V	1.2 V	120		
NCP308SN125T1G	1.16 V	1.25 V	125		
NCP308SN150T1G	1.40 V	1.5 V	150		
NCP308SN180T1G	1.67 V	1.8 V	180		
NCP308SN190T1G	1.77 V	1.9 V	190		
NCP308SN250T1G	2.33 V	2.5 V	250		
NCP308SN280T1G	2.61 V	2.8 V	280		
NCP308SN300T1G	2.79 V	3.0 V	300		
NCP308SN330T1G	3.07 V	3.3 V	330		
NCP308SN500T1G	4.65 V	5.0 V	500		
NCP308MT090TBG	0.84 V	0.9 V	AC	WDFN6 (Pb−Free)	3000 / Tape & Reel
NCP308MT120TBG	1.12 V	1.2 V	AD		
NCP308MT125TBG	1.16 V	1.25 V	AE		
NCP308MT150TBG	1.40 V	1.5 V	AF		
NCP308MT190TBG	1.77 V	1.9 V	AH	WDFN6 (Pb−Free)	3000 / Tape & Reel
NCP308MT500TBG	4.65 V	5.0 V	AN		
NCP308MT280TBG	2.61 V	2.8 V	AK		

†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.

*NCV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC−Q100 Qualified and PPAP Capable.

6. **DISCONTINUED:** These devices are not recommended for new design. Please contact your **onsemi** representative for information. The most current information on these devices may be available on www.onsemi.com.

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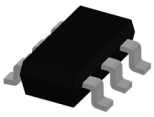
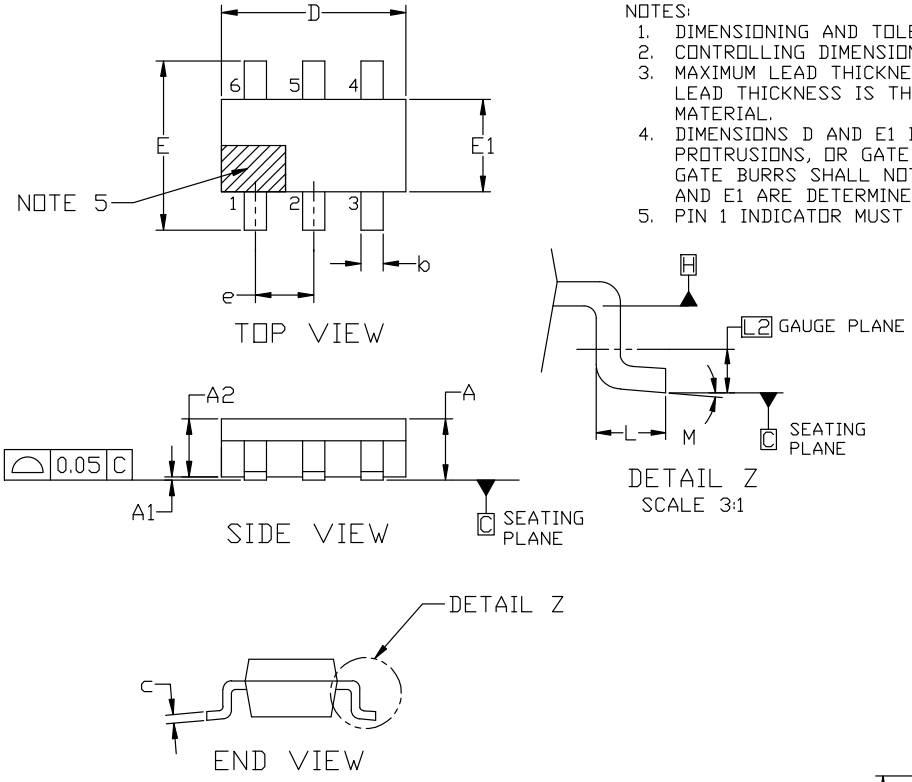


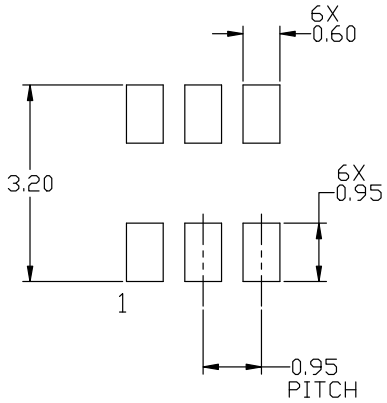
TSOP−6 3.00x1.50x0.90, 0.95P
CASE 318G
ISSUE W

DATE 26 FEB 2024



NOTES:
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.15 PER SIDE. DIMENSIONS D AND E1 ARE DETERMINED AT DATUM H.
5. PIN 1 INDICATOR MUST BE LOCATED IN THE INDICATED ZONE

MILLIMETERS			
DIM	MIN	NOM	MAX
A	0.90	1.00	1.10
A1	0.01	0.06	0.10
A2	0.80	0.90	1.00
b	0.25	0.38	0.50
c	0.10	0.18	0.26
D	2.90	3.00	3.10
E	2.50	2.75	3.00
E1	1.30	1.50	1.70
e	0.85	0.95	1.05
L	0.20	0.40	0.60
L2	0.25 BSC		
M	0°	---	10°



RECOMMENDED MOUNTING FOOTPRINT

*For additional information on our Pb-Free strategy and soldering details, please download th e ON Semiconductor Soldering and Mounting Techniques Reference manual, SOLDERRM/D.

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DESCRIPTION:	**TSOP−6 3.00x1.50x0.90, 0.95P**		**PAGE 1 OF 2**

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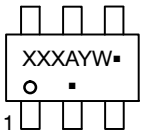
TSOP−6 3.00x1.50x0.90, 0.95P
CASE 318G
ISSUE W

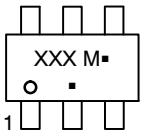
DATE 26 FEB 2024

GENERIC MARKING DIAGRAM*



IC

XXX = Specific Device Code
A = Assembly Location
Y = Year
W = Work Week
▪ = Pb−Free Package



STANDARD

XXX = Specific Device Code
M = Date Code
▪ = Pb−Free Package

*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.

STYLE 1:
PIN 1. DRAIN
2. DRAIN
3. GATE
4. SOURCE
5. DRAIN
6. DRAIN

STYLE 2:
PIN 1. EMITTER 2
2. BASE 1
3. COLLECTOR 1
4. EMITTER 1
5. BASE 2
6. COLLECTOR 2

STYLE 3:
PIN 1. ENABLE
2. N/C
3. R BOOST
4. Vz
5. V in
6. V out

STYLE 4:
PIN 1. N/C
2. V in
3. NOT USED
4. GROUND
5. ENABLE
6. LOAD

STYLE 5:
PIN 1. EMITTER 2
2. BASE 2
3. COLLECTOR 1
4. EMITTER 1
5. BASE 1
6. COLLECTOR 2

STYLE 6:
PIN 1. COLLECTOR
2. COLLECTOR
3. BASE
4. EMITTER
5. COLLECTOR
6. COLLECTOR

STYLE 7:
PIN 1. COLLECTOR
2. COLLECTOR
3. BASE
4. N/C
5. COLLECTOR
6. EMITTER

STYLE 8:
PIN 1. Vbus
2. D(in)
3. D(in)+
4. D(out)+
5. D(out)
6. GND

STYLE 9:
PIN 1. LOW VOLTAGE GATE
2. DRAIN
3. SOURCE
4. DRAIN
5. DRAIN
6. HIGH VOLTAGE GATE

STYLE 10:
PIN 1. D(OUT)+
2. GND
3. D(OUT)−
4. D(IN)−
5. VBUS
6. D(IN)+

STYLE 11:
PIN 1. SOURCE 1
2. DRAIN 2
3. DRAIN 2
4. SOURCE 2
5. GATE 1
6. DRAIN 1/GATE 2

STYLE 12:
PIN 1. I/O
2. GROUND
3. I/O
4. I/O
5. VCC
6. I/O

STYLE 13:
PIN 1. GATE 1
2. SOURCE 2
3. GATE 2
4. DRAIN 2
5. SOURCE 1
6. DRAIN 1

STYLE 14:
PIN 1. ANODE
2. SOURCE
3. GATE
4. CATHODE/DRAIN
5. CATHODE/DRAIN
6. CATHODE/DRAIN

STYLE 15:
PIN 1. ANODE
2. SOURCE
3. GATE
4. DRAIN
5. N/C
6. CATHODE

STYLE 16:
PIN 1. ANODE/CATHODE
2. BASE
3. EMITTER
4. COLLECTOR
5. ANODE
6. CATHODE

STYLE 17:
PIN 1. EMITTER
2. BASE
3. ANODE/CATHODE
4. ANODE
5. CATHODE
6. COLLECTOR

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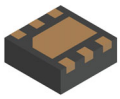
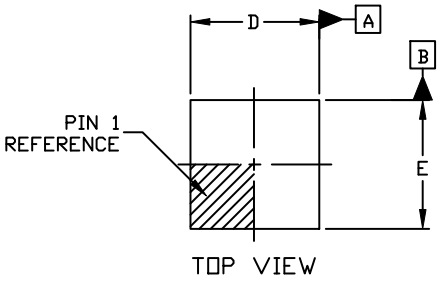
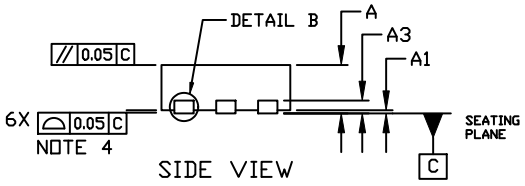
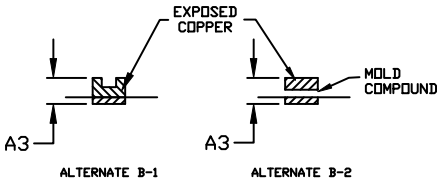


WDFN6 2x2, 0.65P
CASE 511BR
ISSUE C

DATE 01 DEC 2021



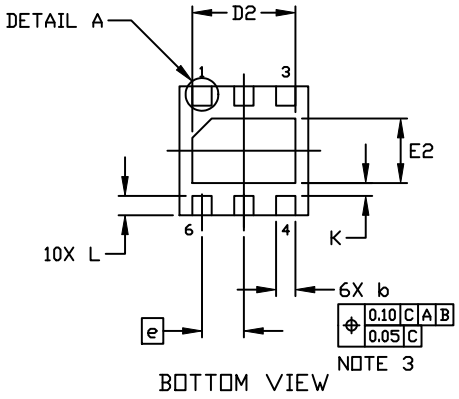


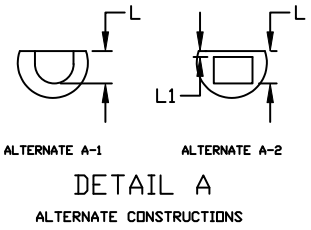


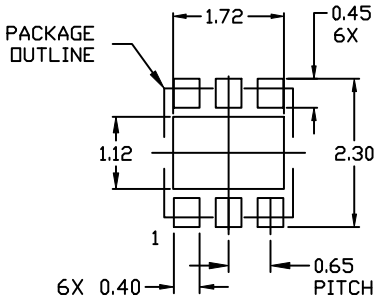
NOTES:

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

DIM	MILLIMETERS		
	MIN.	NOM.	MAX.
A	0.70	0.75	0.80
A1	0.00	---	0.05
A3		0.20 REF	
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	0.90	1.00	1.10
e		0.65 BSC	
K		0.20 REF	
L	0.20	0.30	0.40
L1	---	---	0.15







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

GENERIC
MARKING DIAGRAM*

XX = Specific Device Code
M = 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.

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DESCRIPTION:	**WDFN6 2X2, 0.65P**		**PAGE 1 OF 1**

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