

## Description

The Advanced Ultra Low Power (AUP) CMOS logic family is designed for low power and extended battery life in portable applications.

The 74AUP1G32 is a single 2-input positive OR gate with a standard push-pull output designed for operation over a power supply range of 0.8V to 3.6V. The device is fully specified for partial power down applications using  $I_{OFF}$ . The  $I_{OFF}$  circuitry disables the output preventing damaging current backflow when the device is powered down.

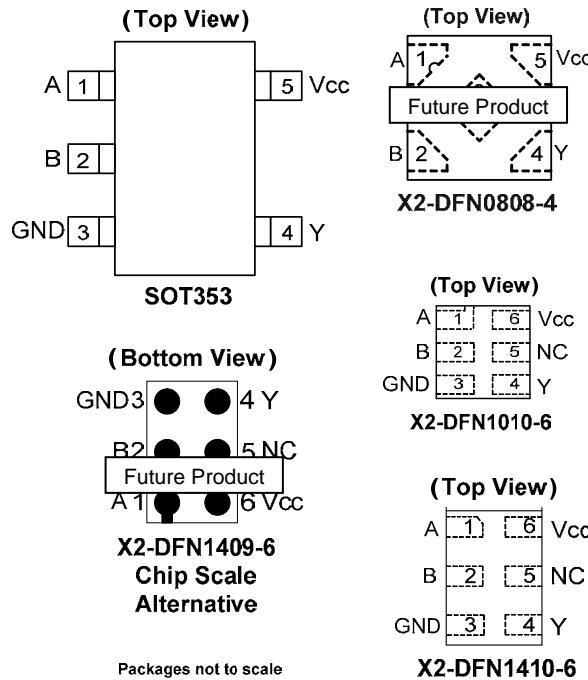
The gate performs the positive Boolean function:

$$Y = A + B \text{ or } Y = \overline{\overline{A}} \bullet \overline{\overline{B}}$$

## Features

- Advanced Ultra Low Power (AUP) CMOS
- Supply Voltage Range from 0.8V to 3.6V
- $\pm 4\text{mA}$  Output Drive at 3.0V
- Low Static power consumption
  - $I_{CC} < 0.9\mu\text{A}$
- Low Dynamic Power Consumption
  - $C_{PD} = 6.3\text{pF}$  (Typical at 3.6V)
- Schmitt Trigger Action at All Inputs Make the Circuit Tolerant for Slower Input Rise and Fall Time. The hysteresis is typically 250 mV at  $V_{CC} = 3.0\text{V}$
- $I_{OFF}$  Supports Partial-Power-Down Mode Operation
- ESD Protection Exceeds JESD 22
  - 2000-V Human Body Model (A114-A)
  - Exceeds 1000-V Charged Device Model (C101C)
- Latch-Up Exceeds 100mA per JESD 78, Class II
- Leadless packages named per JESD30E
- **Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)**
- **Halogen and Antimony Free. "Green" Device (Note 3)**

## Pin Assignments



## Applications

- Suited for battery and low power needs
- Wide array of products such as:
  - Tablets, E-readers
  - Cell Phones, Personal Navigation / GPS
  - MP3 players, Cameras, Video Recorders
  - PCs ultrabooks, notebooks, netbooks,
  - Computer peripherals, hard drives, CD/DVD ROM
  - TV, DVD, DVR, set top box

Notes:

1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant.
2. See <http://www.diodes.com> for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

[Click here for ordering information, located at the end of datasheet](#)

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## Pin Descriptions

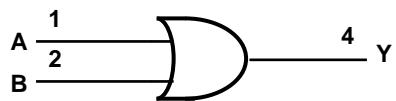
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Pin Name	Function
A	Data Input
B	Data Input
GND	Ground
Y	Data Output
Vcc	Supply Voltage

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## Logic Diagram

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## Function Table

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Inputs		Output
A	B	Y
L	L	L
L	H	H
H	L	H
H	H	H

**Absolute Maximum Ratings** (Note 4) (@ $T_A = +25^\circ\text{C}$ , unless otherwise specified.)

Symbol	Description	Rating	Unit
ESD HBM	Human Body Model ESD Protection	2	kV
ESD CDM	Charged Device Model ESD Protection	1	kV
$V_{CC}$	Supply Voltage Range	-0.5 to +4.6	V
$V_I$	Input Voltage Range	-0.5 to +4.6	V
$V_O$	Voltage applied to output in high or low state	-0.5 to $V_{CC} + 0.5$	V
$I_{IK}$	Input Clamp Current $V_I < 0$	50	mA
$I_{OK}$	Output Clamp Current ( $V_O < 0$ )	50	mA
$I_O$	Continuous output current ( $V_O = 0$ to $V_{CC}$ )	$\pm 20$	mA
$I_{CC}$	Continuous Current Through $V_{CC}$	50	mA
$I_{GND}$	Continuous Current Through GND	-50	mA
$T_J$	Operating Junction Temperature	-40 to +150	$^\circ\text{C}$
$T_{STG}$	Storage Temperature	-65 to +150	$^\circ\text{C}$

Note: 4. Stresses beyond the absolute maximum may result in immediate failure or reduced reliability. These are stress values and device operation should be within recommended values.

**Recommended Operating Conditions** (Note 5) (@ $T_A = +25^\circ\text{C}$ , unless otherwise specified.)

Symbol	Parameter	Min	Max	Unit
$V_{CC}$	Operating Voltage	0.8	3.6	V
$V_I$	Input Voltage	0	3.6	V
$V_O$	Output Voltage	0	$V_{CC}$	V
$I_{OH}$	High-Level Output Current	$V_{CC} = 0.8\text{V}$	-20	$\mu\text{A}$
		$V_{CC} = 1.1\text{V}$	-1.1	mA
		$V_{CC} = 1.4\text{V}$	-1.7	
		$V_{CC} = 1.65\text{V}$	-1.9	
		$V_{CC} = 2.3\text{V}$	-3.1	
		$V_{CC} = 3.0\text{V}$	-4	
$I_{OL}$	Low-Level Output Current	$V_{CC} = 0.8\text{V}$	20	$\mu\text{A}$
		$V_{CC} = 1.1\text{V}$	1.1	mA
		$V_{CC} = 1.4\text{V}$	1.7	
		$V_{CC} = 1.65\text{V}$	1.9	
		$V_{CC} = 2.3\text{V}$	3.1	
		$V_{CC} = 3.0\text{V}$	4	
$\Delta t/\Delta V$	Input Transition Rise or Fall Rate	$V_{CC} = 0.8\text{V}$ to $3.6\text{V}$	200	ns/V
$T_A$	Operating Free-Air Temperature		-40	+125
				$^\circ\text{C}$

Note: 5. Unused inputs should be held at  $V_{CC}$  or Ground.

**Electrical Characteristics** (@ $T_A = +25^\circ\text{C}$ , unless otherwise specified.)

Symbol	Parameter	Test Conditions	$V_{CC}$	$T_A = +25^\circ\text{C}$		$T_A = -40^\circ\text{C} \text{ to } +85^\circ\text{C}$		Unit
				Min	Max	Min	Max	
$V_{IH}$	High-Level Input Voltage		0.8V to 1.65V	0.80 X $V_{CC}$		0.80 X $V_{CC}$		V
			1.65V to 1.95V	0.65 X $V_{CC}$		0.65 X $V_{CC}$		
			2.3V to 2.7V	1.6		1.6		
			3.0V to 3.6V	2.0		2.0		
$V_{IL}$	Low-Level Input Voltage		0.8V to 1.65V		0.30 X $V_{CC}$		0.30 X $V_{CC}$	V
			1.65V to 1.95V		0.35 X $V_{CC}$		0.35 X $V_{CC}$	
			2.3V to 2.7V		0.7		0.7	
			3.0V to 3.6V		0.9		0.9	
$V_{OH}$	High-Level Output Voltage	$I_{OH} = -20\mu\text{A}$	0.8V to 3.6V	$V_{CC} - 0.1$		$V_{CC} - 0.1$		V
		$I_{OH} = -1.1\text{mA}$	1.1V	0.75 X $V_{CC}$		0.7 X $V_{CC}$		
		$I_{OH} = -1.7\text{mA}$	1.4V	1.11		1.03		
		$I_{OH} = -1.9\text{mA}$	1.65V	1.32		1.3		
		$I_{OH} = -2.3\text{mA}$	2.3V	2.05		1.97		
		$I_{OH} = -3.1\text{mA}$		1.9		1.85		
		$I_{OH} = -2.7\text{mA}$	3V	2.72		2.67		
		$I_{OH} = -4\text{mA}$		2.6		2.55		
$V_{OL}$	Low-Level Output Voltage	$I_{OL} = 20\mu\text{A}$	0.8V to 3.6V		0.1		0.1	V
		$I_{OL} = 1.1\text{mA}$	1.1V		0.3 X $V_{CC}$		0.3 X $V_{CC}$	
		$I_{OL} = 1.7\text{mA}$	1.4V		0.31		0.37	
		$I_{OL} = 1.9\text{mA}$	1.65V		0.31		0.35	
		$I_{OL} = 2.3\text{mA}$	2.3V		0.31		0.33	
		$I_{OL} = 3.1\text{mA}$			0.44		0.45	
		$I_{OL} = 2.7\text{mA}$	3V		0.31		0.33	
		$I_{OL} = 4\text{mA}$			0.44		0.45	
$I_I$	Input Current	A or B Input $V_I = \text{GND}$ to 3.6V	0V to 3.6V		$\pm 0.1$		$\pm 0.5$	$\mu\text{A}$
$I_{OFF}$	Power Down Leakage Current	$V_I$ or $V_O = 0\text{V}$ to 3.6V	0		0.2		0.6	$\mu\text{A}$
$\Delta I_{OFF}$	Delta Power Down Leakage Current	$V_I$ or $V_O = 0\text{V}$ to 3.6V	0V to 0.2V		0.2		0.6	$\mu\text{A}$
$I_{CC}$	Supply Current	$V_I = \text{GND}$ or $V_{CC}$ , $I_O = 0$	0.8V to 3.6V		0.5		0.9	$\mu\text{A}$
$\Delta I_{CC}$	Additional Supply Current	One input at $V_{CC} - 0.6\text{V}$ Other inputs at $V_{CC}$ or GND	3.3V		40		50	$\mu\text{A}$

**Electrical Characteristics** (cont.) (@ $T_A = +25^\circ\text{C}$ , unless otherwise specified.)

Symbol	Parameter	Test Conditions	$V_{CC}$	$T_A = -40^\circ\text{C} \text{ to } +125^\circ\text{C}$		Unit
				Min	Max	
$V_{IH}$	High-Level Input Voltage		0.8V to 1.65V	0.80 X $V_{CC}$		V
			1.65V to 1.95V	0.70 X $V_{CC}$		
			2.3V to 2.7V	1.6		
			3.0V to 3.6V	2.0		
$V_{IL}$	Low-Level Input Voltage		0.8V to 1.65V		0.25 X $V_{CC}$	V
			1.65V to 1.95V		0.30 X $V_{CC}$	
			2.3V to 2.7V		0.7	
			3.0V to 3.6V		0.9	
$V_{OH}$	High-Level Output Voltage	$I_{OH} = -20\mu\text{A}$	0.8V to 3.6V	$V_{CC} - 0.11$		V
		$I_{OH} = -1.1\text{mA}$	1.1V	0.6 X $V_{CC}$		
		$I_{OH} = -1.7\text{mA}$	1.4V	0.93		
		$I_{OH} = -1.9\text{mA}$	1.65V	1.17		
		$I_{OH} = -2.3\text{mA}$	2.3V	1.77		
		$I_{OH} = -3.1\text{mA}$		1.67		
		$I_{OH} = -2.7\text{mA}$	3V	2.40		
		$I_{OH} = -4\text{mA}$		2.30		
$V_{OL}$	Low-Level Output Voltage	$I_{OL} = 20\mu\text{A}$	0.8V to 3.6V		0.11	V
		$I_{OL} = 1.1\text{mA}$	1.1V		0.33 X $V_{CC}$	
		$I_{OL} = 1.7\text{mA}$	1.4V		0.41	
		$I_{OL} = 1.9\text{mA}$	1.65V		0.39	
		$I_{OL} = 2.3\text{mA}$	2.3V		0.36	
		$I_{OL} = 3.1\text{mA}$			0.50	
		$I_{OL} = 2.7\text{mA}$	3V		0.36	
		$I_{OL} = 4\text{mA}$			0.50	
$I_I$	Input Current	A or B Input $V_I = \text{GND to } 3.6\text{V}$	0V to 3.6V		$\pm 0.75$	$\mu\text{A}$
$I_{OFF}$	Power Down Leakage Current	$V_I$ or $V_O = 0\text{V to } 3.6\text{V}$	0		$\pm 3.5$	$\mu\text{A}$
$\Delta I_{OFF}$	Delta Power Down Leakage Current	$V_I$ or $V_O = 0\text{V to } 3.6\text{V}$	0V to 0.2V		$\pm 2.5$	$\mu\text{A}$
$I_{CC}$	Supply Current	$V_I = \text{GND or } V_{CC}, I_O = 0$	0.8V to 3.6V		3.0	$\mu\text{A}$
$\Delta I_{CC}$	Additional Supply Current	Input at $V_{CC} - 0.6\text{V}$ Other inputs at $V_{CC}$ or GND	3.3V		75	$\mu\text{A}$

## Switching Characteristics

$C_L = 5\text{pF}$  see Figure 1

Parameter	From Input	TO OUTPUT	$V_{CC}$	$T_A = +25^\circ C$			$T_A = -40^\circ C \text{ to } +85^\circ C$		$T_A = -40^\circ C \text{ to } +125^\circ C$		Unit
				Min	Typ	Max	Min	Max	Min	Max	
$t_{pd}$	A or B	Y	0.8V		16.8						ns
			$1.2V \pm 0.V$	2.2	5.1	10.9	2.1	11.9	2.1	13.2	
			$1.5V \pm 0.1V$	1.6	3.6	6.6	1.4	7.5	1.4	8.3	
			$1.8V \pm 0.15V$	1.4	3.0	5.2	1.2	6.0	1.2	6.6	
			$2.5V \pm 0.2V$	1.1	2.4	3.9	1.0	4.6	1.0	5.1	
			$3.3V \pm 0.3V$	1.0	2.1	3.5	0.9	4.1	0.9	4.6	

$C_L = 10\text{pF}$  see Figure 1

Parameter	From Input	TO OUTPUT	$V_{CC}$	$T_A = +25^\circ C$			$T_A = -40^\circ C \text{ to } +85^\circ C$		$T_A = -40^\circ C \text{ to } +125^\circ C$		Unit
				Min	Typ	Max	Min	Max	Min	Max	
$t_{pd}$	A or B	Y	0.8V		20.3						ns
			$1.2V \pm 0.V$	2.3	5.9	12.7	2.1	13.8	2.1	15.2	
			$1.5V \pm 0.1V$	1.9	4.2	7.7	1.7	8.7	1.7	9.6	
			$1.8V \pm 0.15V$	1.7	3.5	6.0	1.5	6.9	1.5	7.7	
			$2.5V \pm 0.2V$	1.4	2.9	4.6	1.3	5.5	1.3	6.1	
			$3.3V \pm 0.3V$	1.3	2.7	4.3	1.2	5.0	1.2	5.5	

$C_L = 15\text{pF}$  see Figure 1

Parameter	From Input	TO OUTPUT	$V_{CC}$	$T_A = +25^\circ C$			$T_A = -40^\circ C \text{ to } +85^\circ C$		$T_A = -40^\circ C \text{ to } +125^\circ C$		Unit
				Min	Typ	Max	Min	Max	Min	Max	
$t_{pd}$	A or B	Y	0.8V		23.8						ns
			$1.2V \pm 0.V$	3.3	6.7	16.3	3.0	19.9	3.0	19.9	
			$1.5V \pm 0.1V$	2.3	4.8	8.6	2.0	9.8	2.0	10.8	
			$1.8V \pm 0.15V$	2.0	4.0	6.7	1.8	7.9	1.8	8.7	
			$2.5V \pm 0.2V$	1.7	3.3	5.3	1.6	6.3	1.6	6.9	
			$3.3V \pm 0.3V$	1.5	3.1	4.9	1.5	5.8	1.5	6.4	

$C_L = 30\text{pF}$  see Figure 1

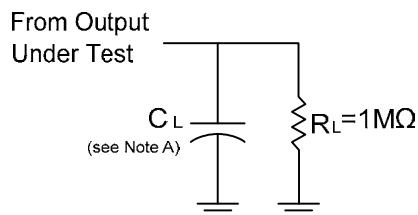
Parameter	From Input	TO OUTPUT	$V_{CC}$	$T_A = +25^\circ C$			$T_A = -40^\circ C \text{ to } +85^\circ C$		$T_A = -40^\circ C \text{ to } +125^\circ C$		Unit
				Min	Typ	Max	Min	Max	Min	Max	
$t_{pd}$	A or B	Y	0.8V		34.1						ns
			$1.2V \pm 0.V$	4.5	15.0	19.1	4.0	23.5	4.0	23.7	
			$1.5V \pm 0.1V$	3.4	6.3	11.3	2.9	13.3	2.9	14.7	
			$1.8V \pm 0.15V$	2.6	5.3	8.9	2.4	10.7	2.4	11.8	
			$2.5V \pm 0.2V$	2.3	4.4	7.0	2.2	8.4	2.2	9.3	
			$3.3V \pm 0.3V$	2.0	3.2	6.4	2.0	7.7	2.0	8.5	

## Operating and Package Characteristics (@T<sub>A</sub> = +25°C, unless otherwise specified.)

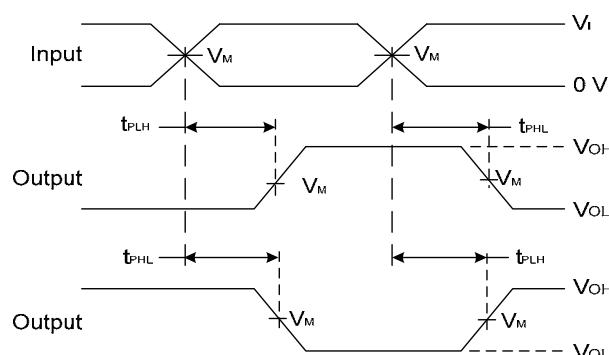
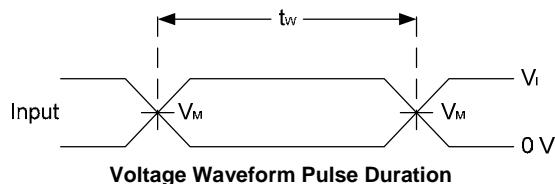
Parameter		Test Conditions		V <sub>CC</sub>	Typ	Unit
C <sub>pd</sub>	Power Dissipation Capacitance	f = 1MHz No Load		0.8V	6.9	pF
				1.2V ± 0.1V	6.8	
				1.5V ± 0.1V	6.7	
				1.8V ± 0.15V	6.6	
				2.5V ± 0.2V	6.4	
				3.3V ± 0.3V	6.3	
C <sub>i</sub>	Input Capacitance	V <sub>i</sub> = V <sub>CC</sub> or GND		0V or 3.3V	1.5	pF
θ <sub>JA</sub>	Thermal Resistance Junction-to-Ambient	SOT353	(Note 6)		371	°C/W
		X2-DFN0808-4			430	
		X2-DFN1010-6			445	
		X2-DFN1409-6			470	
		X2-DFN1410-6			460	
θ <sub>JC</sub>	Thermal Resistance Junction-to-Case	SOT353	(Note 6)		143	°C/W
		X2-DFN0808-4			240	
		X2-DFN1010-6			250	
		X2-DFN1409-6			275	
		X2-DFN1410-6			265	

Note: 6. Test condition for , SOT353, X2-DFN0808-4;, X2-DFN1010-6 X2-DFN1409-6 and X2-DFN1410-6: Device mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.

## Parameter Measurement Information



V <sub>CC</sub>	Inputs		V <sub>M</sub>	C <sub>L</sub>
	V <sub>I</sub>	t <sub>r/t<sub>f</sub></sub>		
0.8V	V <sub>CC</sub>	≤3ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
1.2V±0.1V	V <sub>CC</sub>	≤3ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
1.5V±0.1V	V <sub>CC</sub>	≤3ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
1.8V ±0.15V	V <sub>CC</sub>	≤3ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
2.5V±0.2V	V <sub>CC</sub>	≤3ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
3.3V±0.3V	V <sub>CC</sub>	≤3ns	V <sub>CC</sub> /2	5, 10, 15, 30pF

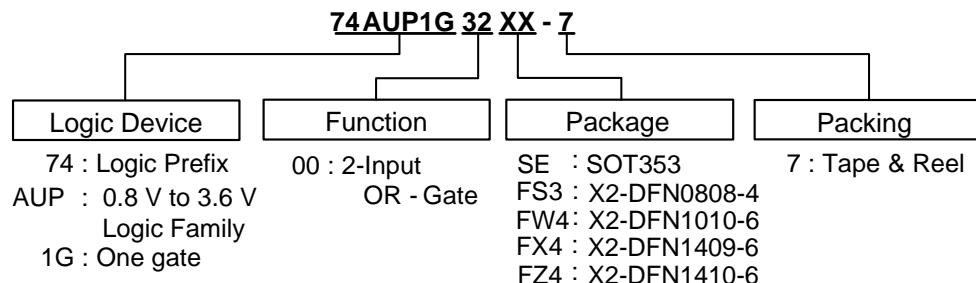


Voltage Waveform Propagation Delay Times  
Inverting and Non Inverting Outputs

Figure 1 Load Circuit and Voltage Waveforms

- Notes:
- A. Includes test lead and test apparatus capacitance.
  - B. All pulses are supplied at pulse repetition rate ≤ 10MHz.
  - C. Inputs are measured separately one transition per measurement.
  - D. t<sub>PLH</sub> and t<sub>PHL</sub> are the same as t<sub>PD</sub>.

## Ordering Information



Device	Package Code	Packaging	7" Tape and Reel (Note 7)	
			Quantity	Part Number Suffix
74AUP1G32SE-7	SE	SOT353	3000/Tape & Reel	-7
74AUP1G32FS3-7**	FS3	X2-DFN0808-4	5000/Tape & Reel	-7
74AUP1G32FW4-7	FW4	X2-DFN1010-6	5000/Tape & Reel	-7
74AUP1G32FX4-7**	FX4	X2-DFN1409-6	5000/Tape & Reel	-7
74AUP1G32FZ4-7	FZ4	X2-DFN1410-6	5000/Tape & Reel	-7

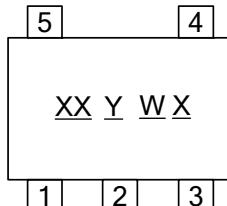
Notes: 7. The taping orientation is located on our website at <http://www.diodes.com/datasheets/ap02007.pdf>

\*\* Future Products – Contact your Diodes sales representative for availability.

## Marking Information

### (1) SOT353

(Top View)

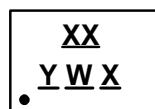


XX : Identification code  
Y : Year 0~9  
W : Week : A~Z : 1~26 week;  
 a~z : 27~52 week; z represents  
 52 and 53 week  
X : A~Z : Internal code

Part Number	Package	Identification Code
74AUP1G32SE	SOT353	XU

### (2) X2-DFN0808-4, X2-DFN1010-6 X2-DFN1409-6 and X2-DFN1410-6

(Top View)



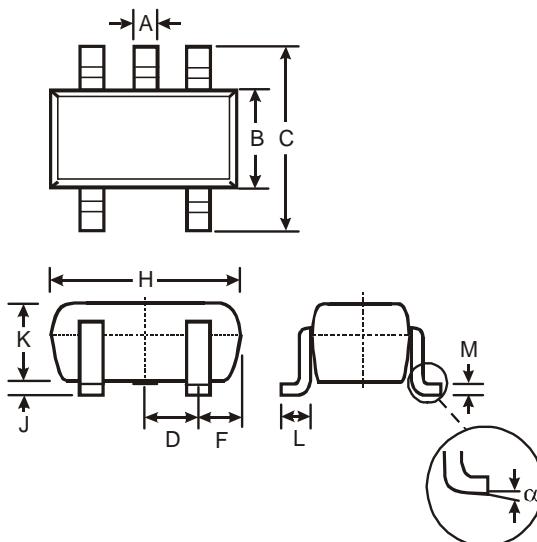
XX : Identification Code  
Y : Year : 0~9  
W : Week : A~Z : 1~26 week;  
 a~z : 27~52 week; z represents  
 52 and 53 week  
X : A~Z : Internal code

Part Number	Package	Identification Code
74AUP1G32FS3	X2-DFN0808-4	YW
74AUP1G32FW4	X2-DFN1010-6	XU
74AUP1G32FX4	X2-DFN1409-6	HK
74AUP1G32FZ4	X2-DFN1410-6	XU

## Package Outline Dimensions (All dimensions in mm.)

Please see AP02002 at <http://www.diodes.com/datasheets/ap02002.pdf> for latest version.

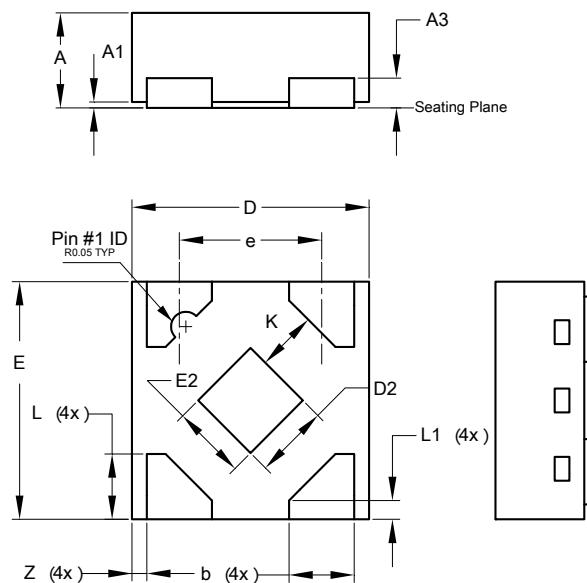
### (1) SOT353



SOT353			
Dim	Min	Max	Typ
A	0.10	0.30	0.25
B	1.15	1.35	1.30
C	2.00	2.20	2.10
D	0.65	Typ	
F	0.40	0.45	0.425
H	1.80	2.20	2.15
J	0	0.10	0.05
K	0.90	1.00	1.00
L	0.25	0.40	0.30
M	0.10	0.22	0.11
$\alpha$	0°	8°	-

All Dimensions in mm

### (2) X2-DFN0808-4



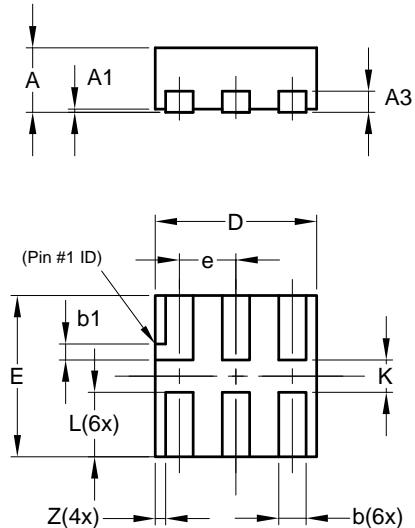
X2-DFN0808-4			
Dim	Min	Max	Typ
A	0.25	0.35	0.30
A1	0	0.04	0.02
A3	-	-	0.13
b	0.17	0.27	0.22
D	0.75	0.85	0.80
D2	0.15	0.35	0.25
E	0.75	0.85	0.80
E2	0.15	0.35	0.25
e	-	-	0.48
K	0.20	-	-
L	0.17	0.27	0.22
L1	0.02	0.12	0.07
Z	-	-	0.05

All Dimensions in mm

## Package Outline Dimensions (cont.) (All dimensions in mm.)

Please see AP02002 at <http://www.diodes.com/datasheets/ap02002.pdf> for latest version.

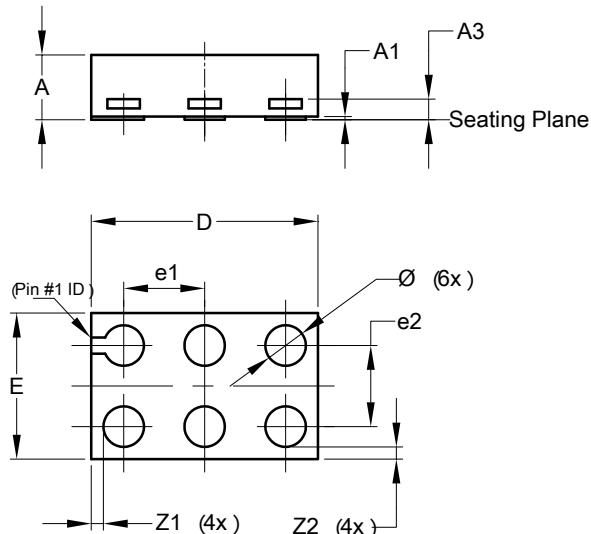
### (3) X2-DFN1010-6



X2-DFN1010-6			
Dim	Min	Max	Typ
A	—	0.40	0.39
A1	0.00	0.05	0.02
A3	—	—	0.13
b	0.14	0.20	0.17
b1	0.05	0.15	0.10
D	0.95	1.05	1.00
E	0.95	1.05	1.00
e	—	—	0.35
L	0.35	0.45	0.40
K	0.15	—	—
Z	—	—	0.065

All Dimensions in mm

### (4) X2-DFN1409-6



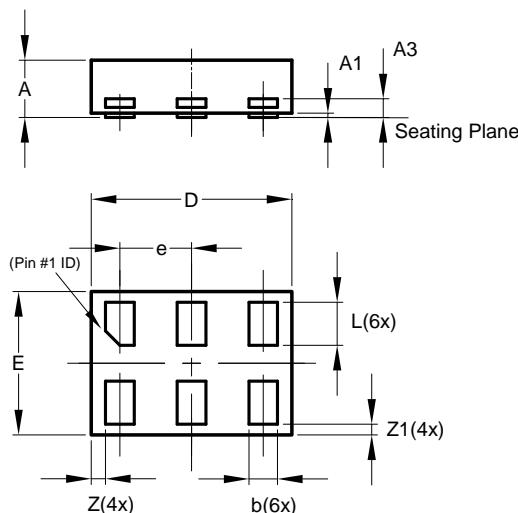
X2-DFN1409-6			
Dim	Min	Max	Typ
A	-	0.40	0.39
A1	0	0.05	0.02
A3	-	-	0.13
Ø	0.20	0.30	0.25
D	1.35	1.45	1.40
E	0.85	0.95	0.90
e1	-	-	0.50
e2	-	-	0.50
Z1	-	-	0.075
Z2	-	-	0.075

All Dimensions in mm

## Package Outline Dimensions (cont.) (All dimensions in mm.)

Please see AP02002 at <http://www.diodes.com/datasheets/ap02002.pdf> for latest version.

### (5) X2-DFN1410-6



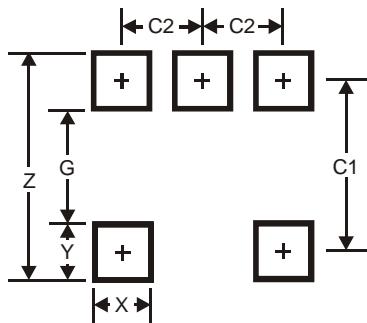
X2-DFN1410-6			
Dim	Min	Max	Typ
A	—	0.40	0.39
A1	0.00	0.05	0.02
A3	—	—	0.13
b	0.15	0.25	0.20
D	1.35	1.45	1.40
E	0.95	1.05	1.00
e	—	—	0.50
L	0.25	0.35	0.30
Z	—	—	0.10
Z1	0.045	0.105	0.075

All Dimensions in mm

## Suggested Pad Layout

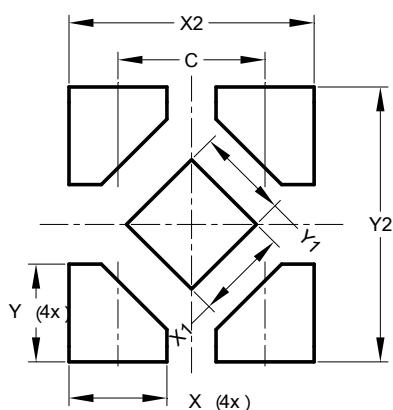
Please see AP02001 at <http://www.diodes.com/datasheets/ap02001.pdf> for the latest version

### (1) SOT353



Dimensions	Value (in mm)
Z	2.5
G	1.3
X	0.42
Y	0.6
C1	1.9
C2	0.65

### (2) X2-DFN0808-4

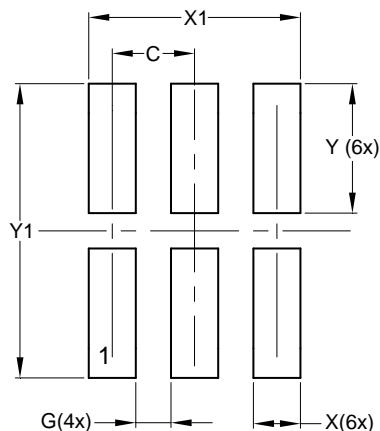


Dimensions	Value (in mm)
C	0.480
X	0.320
X1	0.300
X2	0.800
Y	0.320
Y1	0.300
Y2	0.900

## Suggested Pad Layout

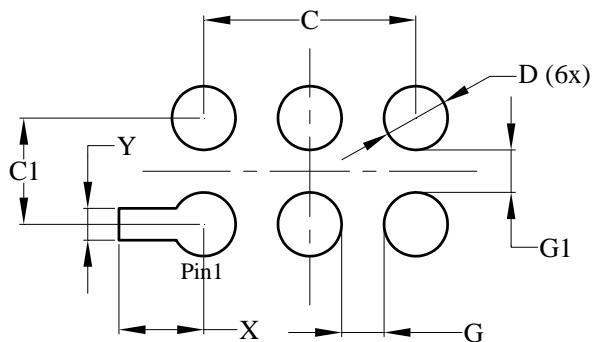
Please see AP02001 at <http://www.diodes.com/datasheets/ap02001.pdf> for the latest version

(3) X2-DFN1010-6



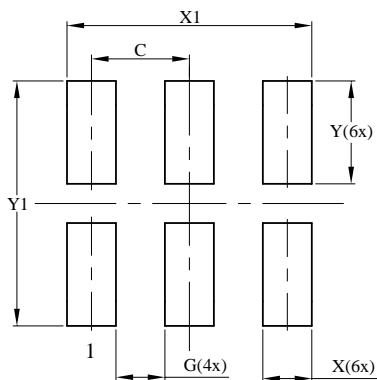
Dimensions	Value (in mm)
C	0.350
G	0.150
X	0.200
X1	0.900
Y	0.550
Y1	0.350

(4) X2-DFN1409-6



Dimensions	Value (in mm)
C	1.000
C1	0.500
D	0.300
G	0.200
G1	0.200
X	0.400
Y	0.150

(5) X2-DFN1410-6



Dimensions	Value (in mm)
C	0.500
G	0.250
X	0.250
X1	1.250
Y	0.525
Y1	1.250

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