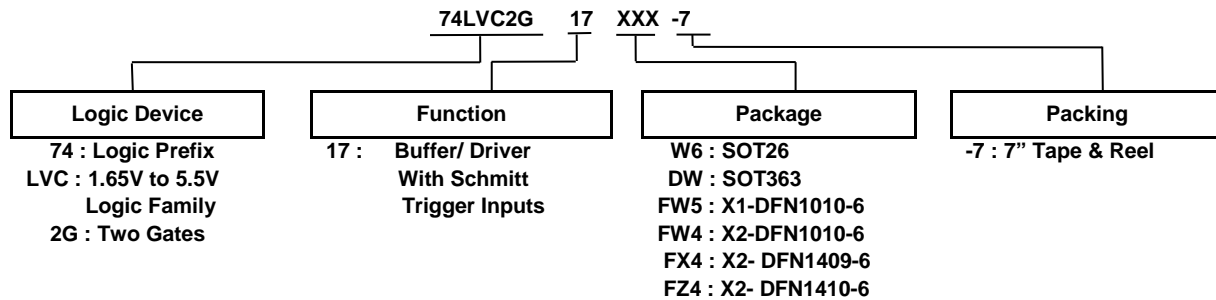


## Ordering Information



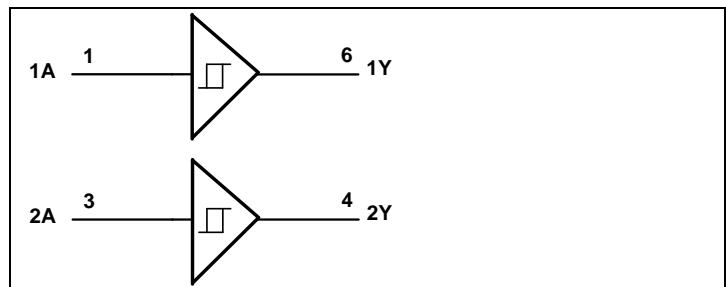
| Part Number    | Package Code | Package (Note 4)                       | Package Size                                | 7" Tape and Reel (Note 5) |                    |
|----------------|--------------|--|---|---------------------------|--------------------|
|                |              |  |   | Quantity                  | Part Number Suffix |
| 74LVC2G17W6-7  | W6           | SOT26 (SC74R)                          | 2.8mm x 2.2 mm x 1.1mm<br>0.95mm lead pitch | 3000/Tape & Reel          | -7                 |
| 74LVC2G17DW-7  | DW           | SOT363                                 | 2.0mm x 2.0mm x 1.1mm<br>0.65mm lead pitch  | 3000/Tape & Reel          | -7                 |
| 74LVC2G17FW5-7 | FW5          | X1-DFN1010-6                           | 1.0mm x 1.0mm x 0.5mm<br>0.35mm pad pitch   | 5000/Tape & Reel          | -7                 |
| 74LVC2G17FW4-7 | FW4          | X2-DFN1010-6                           | 1.0mm x 1.0mm x 0.4mm<br>0.35mm pad pitch   | 5000/Tape & Reel          | -7                 |
| 74LVC2G17FX4-7 | FX4          | X2-DFN1409-6<br>Chip Scale Alternative | 1.4mm x 0.9mm x 0.4mm<br>0.5mm pad pitch    | 5000/Tape & Reel          | -7                 |
| 74LVC2G17FZ4-7 | FZ4          | X2-DFN1410-6                           | 1.4mm x 1.0mm x 0.4mm<br>0.5mm pad pitch    | 5000/Tape & Reel          | -7                 |

Notes: 4. Pad layout as shown on Diodes Incorporated's website at <http://www.diodes.com/package-outlines.html>.  
5. The taping orientation is located on our website at <http://www.diodes.co/datasheets/ap02007.pdf>.

## Pin Descriptions

| Pin Name        | Pin Number | Function       |
|-----------------|------------|----------------|
| 1A              | 1          | Data Input     |
| GND             | 2          | Ground         |
| 2A              | 3          | Data Input     |
| 2Y              | 4          | Data Output    |
| V <sub>CC</sub> | 5          | Supply Voltage |
| 1Y              | 6          | Data Output    |

## Logic Diagram



## Function Table

| Inputs | Output |
|--------|--------|
| A      | Y      |
| H      | H      |
| L      | L      |

## Absolute Maximum Ratings (Notes 6 & 7) (@T<sub>A</sub> = +25°C, unless otherwise specified.)

| Symbol           | Parameter   | Rating                       | Unit |
|------------------|---|------------------------------|------|
| ESD HBM          | Human Body Model ESD Protection                                       | 2                            | kV   |
| ESD CDM          | Charged Device Model ESD Protection                                   | 1                            | kV   |
| ESD MM           | Machine Model ESD Protection  | 200                          | V    |
| V <sub>CC</sub>  | Supply Voltage Range  | -0.5 to +6.5                 | V    |
| V <sub>I</sub>   | Input Voltage Range   | -0.5 to +6.5                 | V    |
| V <sub>O</sub>   | Voltage Applied to Output in High Impedance or I <sub>OFF</sub> State | -0.5 to +6.5                 | V    |
| V <sub>O</sub>   | Voltage Applied to Output in High or Low State                        | -0.3 to V <sub>CC</sub> +0.5 | V    |
| I <sub>IK</sub>  | Input Clamp Current V <sub>I</sub> < 0                                | -50                          | mA   |
| I <sub>OK</sub>  | Output Clamp Current V <sub>O</sub> < 0                               | -50                          | mA   |
| I <sub>O</sub>   | Continuous Output Current   | -50                          | mA   |
| —                | Continuous Current Through V <sub>DD</sub> or GND                     | ±100                         | mA   |
| T <sub>J</sub>   | Operating Junction Temperature  | -40 to +150                  | °C   |
| T <sub>STG</sub> | Storage Temperature   | -65 to +150                  | °C   |

Note: 6. Stresses beyond the absolute maximum may result in immediate failure or reduced reliability. These are stress values and device operation should be within recommend values.  
7. Forcing the maximum allowed voltage could cause a condition exceeding the maximum current or conversely forcing the maximum current could cause a condition exceeding the maximum voltage. The ratings of both current and voltage must be maintained within the controlled range.

## Recommended Operating Conditions (Note 8) (@T<sub>A</sub> = +25°C, unless otherwise specified.)

| Symbol          | Parameter                          | Min   | Max             | Unit |
|-----------------|------------------------------------|---|-----------------|------|
| V <sub>CC</sub> | Operating Voltage                  | 1.65  | 5.5             | V    |
|                 | Data Retention Only                | 1.5   | —               | V    |
| V <sub>I</sub>  | Input Voltage                      | 0   | 5.5             | V    |
| V <sub>O</sub>  | Output Voltage                     | 0   | V <sub>CC</sub> | V    |
| I <sub>OH</sub> | High-Level Output Current          | V <sub>CC</sub> = 1.65V                     | —               | -4   |
|                 |                                    | V <sub>CC</sub> = 2.3V                      | —               | -8   |
|                 |                                    | V <sub>CC</sub> = 3V                        | —               | -16  |
|                 |                                    | V <sub>CC</sub> = 4.5V                      | —               | -24  |
| I <sub>OL</sub> | Low-Level Output Current           | V <sub>CC</sub> = 1.65V                     | —               | 4    |
|                 |                                    | V <sub>CC</sub> = 2.3V                      | —               | 8    |
|                 |                                    | V <sub>CC</sub> = 3V                        | —               | 16   |
|                 |                                    | V <sub>CC</sub> = 4.5V                      | —               | 24   |
| Δt/ΔV           | Input Transition Rise or Fall Rate | V <sub>CC</sub> = 1.8V ± 0.15V, 2.5V ± 0.2V | —               | 20   |
|                 |                                    | V <sub>CC</sub> = 3.3V ± 0.3V               | —               | 10   |
|                 |                                    | V <sub>CC</sub> = 5V ± 0.5V                 | —               | 5    |
| T <sub>A</sub>  | Operating Free-air Temperature     | —   | -40             | +125 |

Note: 8. Unused inputs should be held at V<sub>CC</sub> or Ground.

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

| Symbol           | Parameter                                       | Test Conditions                                  | V <sub>CC</sub> | -40°C to +85°C        |      | -40°C to +125°C       |      | Unit |
|------------------|---|--|-----------------|-----------------------|------|-----------------------|------|------|
|                  |   |  |                 | Min                   | Max  | Min                   | Max  |      |
| V <sub>T+</sub>  | Positive-going Input Threshold Voltage          | —  | 1.8V            | 0.70                  | 1.50 | 0.70                  | 1.70 | V    |
|                  |   |  | 2.3V            | 1.00                  | 1.80 | 1.00                  | 2.00 |      |
|                  |   |  | 3V              | 1.30                  | 2.20 | 1.30                  | 2.40 |      |
|                  |   |  | 4.5V            | 1.90                  | 3.10 | 1.90                  | 3.30 |      |
|                  |   |  | 5.5V            | 2.20                  | 3.60 | 2.20                  | 3.80 |      |
| V <sub>T-</sub>  | Negative-going Input Threshold Voltage          | —  | 1.8V            | 0.25                  | 0.90 | 0.25                  | 1.10 | V    |
|                  |   |  | 2.3V            | 0.40                  | 1.15 | 0.4                   | 1.35 |      |
|                  |   |  | 3V              | 0.60                  | 1.50 | 0.6                   | 1.7  |      |
|                  |   |  | 4.5V            | 1.00                  | 2.00 | 1                     | 2.2  |      |
|                  |   |  | 5.5V            | 1.20                  | 2.30 | 1.2                   | 2.5  |      |
| ΔV <sub>T</sub>  | Hysteresis (V <sub>T+</sub> - V <sub>T-</sub> ) | —  | 1.8V            | 0.15                  | 1.00 | 0.15                  | 1.2  | V    |
|                  |   |  | 2.3V            | 0.25                  | 1.10 | 0.25                  | 1.3  |      |
|                  |   |  | 3V              | 0.40                  | 1.20 | 0.40                  | 1.40 |      |
|                  |   |  | 4.5V            | 0.60                  | 1.50 | 0.60                  | 1.70 |      |
|                  |   |  | 5.5V            | 0.70                  | 1.70 | 0.70                  | 1.90 |      |
| V <sub>OH</sub>  | High-Level Output Voltage                       | I <sub>OH</sub> = -100μA                         | 1.65V to 5.5V   | V <sub>CC</sub> - 0.1 | —    | V <sub>CC</sub> - 0.1 | —    | V    |
|                  |   | I <sub>OH</sub> = -4mA                           | 1.65V           | 1.2                   | —    | 0.95                  | —    |      |
|                  |   | I <sub>OH</sub> = -8mA                           | 2.3V            | 1.9                   | —    | 1.7                   | —    |      |
|                  |   | I <sub>OH</sub> = -16mA                          | 3V              | 2.4                   | —    | 1.9                   | —    |      |
|                  |   | I <sub>OH</sub> = -24mA                          |                 | 2.3                   | —    | 2.0                   | —    |      |
|                  |   | I <sub>OH</sub> = -32mA                          | 4.5V            | 3.8                   | —    | 3.4                   | —    |      |
| V <sub>OL</sub>  | Low-Level Output Voltage                        | I <sub>OL</sub> = 100μA                          | 1.65V to 5.5V   | —                     | 0.1  | —                     | 0.10 | V    |
|                  |   | I <sub>OL</sub> = 4mA                            | 1.65V           | —                     | 0.45 | —                     | 0.70 |      |
|                  |   | I <sub>OL</sub> = 8mA                            | 2.3V            | —                     | 0.3  | —                     | 0.45 |      |
|                  |   | I <sub>OL</sub> = 16mA                           | 3V              | —                     | 0.4  | —                     | 0.60 |      |
|                  |   | I <sub>OL</sub> = 24mA                           |                 | —                     | 0.55 | —                     | 0.80 |      |
|                  |   | I <sub>OL</sub> = 32mA                           | 4.5V            | —                     | 0.55 | —                     | 0.80 |      |
| I <sub>I</sub>   | Input Current                                   | V <sub>I</sub> = 5.5V or GND                     | 0 to 5.5V       | —                     | ± 5  | —                     | ± 20 | μA   |
| I <sub>OFF</sub> | Power Down Leakage Current                      | V <sub>I</sub> or V <sub>O</sub> = 5.5V          | 0               | —                     | ± 10 | —                     | ± 20 | μA   |
| I <sub>CC</sub>  | Supply Current                                  | V <sub>I</sub> = 5.5V or GND, I <sub>O</sub> = 0 | 1.65V to 5.5V   | —                     | 10   | —                     | 40   | μA   |

## Package Characteristics (@T<sub>A</sub> = +25°C, V<sub>CC</sub> = 3.3V, unless otherwise specified.)

| Symbol          | Parameter                              | Package                 | Conditions  | Min | Typ | Max | Unit |
|-----------------|--|-------------------------|---|-----|-----|-----|------|
| C <sub>I</sub>  | Input Capacitance                      | Typical of all packages | V <sub>CC</sub> = 3.3V<br>V <sub>I</sub> = V <sub>CC</sub> or GND | —   | 3.5 | —   | pF   |
| θ <sub>JA</sub> | Thermal Resistance Junction-to-Ambient | SOT26                   | (Note 9)  | —   | 204 | —   | °C/W |
|                 |  | SOT363                  |   | —   | 371 | —   |      |
|                 |  | X2-DFN1410-6            |   | —   | 430 | —   |      |
|                 |  | X2-DFN1409-6            |   | —   | 450 | —   |      |
|                 |  | X1-DFN1010-6            |   | —   | 495 | —   |      |
|                 |  | X2-DFN1010-6            |   | —   | 510 | —   |      |
| θ <sub>JC</sub> | Thermal Resistance Junction-to-Case    | SOT26                   | (Note 9)  | —   | 52  | —   | °C/W |
|                 |  | SOT363                  |   | —   | 143 | —   |      |
|                 |  | X2-DFN1410-6            |   | —   | 190 | —   |      |
|                 |  | X2-DFN1409-6            |   | —   | 225 | —   |      |
|                 |  | X1-DFN1010-6            |   | —   | 245 | —   |      |
|                 |  | X2-DFN1010-6            |   | —   | 250 | —   |      |

Note: 9. Test condition for all packages: : Device mounted on FR-4 substrate PC board, 2oz copper with minimum recommended pad layout.

## Switching Characteristics

T<sub>A</sub> = -40°C to +85°C, C<sub>L</sub> = 30pF or 50pF (See Figure 1)

| Parameter       | From (Input) | TO (OUTPUT) | V <sub>CC</sub> = 1.8V ± 0.15V |      | V <sub>CC</sub> = 2.5V ± 0.2V |     | V <sub>CC</sub> = 3.3V ± 0.3V |     | V <sub>CC</sub> = 5V ± 0.5V |     | Unit |
|-----------------|--------------|-------------|--------------------------------|------|-------------------------------|-----|-------------------------------|-----|-----------------------------|-----|------|
|                 |              |             | Min                            | Max  | Min                           | Max | Min                           | Max | Min                         | Max |      |
| t <sub>PD</sub> | A            | Y           | 0.5                            | 10.5 | 0.5                           | 6.5 | 0.5                           | 5.7 | 0.5                         | 4.3 | ns   |

T<sub>A</sub> = -40°C to +125°C, C<sub>L</sub> = 30pF or 50pF (See Figure 1)

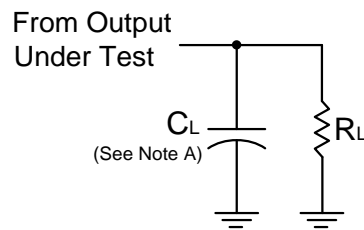
| Parameter       | From (Input) | TO (OUTPUT) | V <sub>CC</sub> = 1.8V ± 0.15V |      | V <sub>CC</sub> = 2.5V ± 0.2V |     | V <sub>CC</sub> = 3.3V ± 0.3V |     | V <sub>CC</sub> = 5V ± 0.5V |     | Unit |
|-----------------|--------------|-------------|--------------------------------|------|-------------------------------|-----|-------------------------------|-----|-----------------------------|-----|------|
|                 |              |             | Min                            | Max  | Min                           | Max | Min                           | Max | Min                         | Max |      |
| t <sub>PD</sub> | A            | Y           | 0.5                            | 13.1 | 0.5                           | 8.5 | 0.5                           | 7.1 | 0.5                         | 5.4 | ns   |

## Operating Characteristics

T<sub>A</sub> = +25°C

| Parameter       |                               | Test Conditions | V <sub>CC</sub> = 1.8V | V <sub>CC</sub> = 2.5V | V <sub>CC</sub> = 3.3V | V <sub>CC</sub> = 5V | Unit |
|-----------------|-------------------------------|-----------------|------------------------|------------------------|------------------------|----------------------|------|
|                 |                               |                 | Typ                    | Typ                    | Typ                    | Typ                  |      |
| C <sub>PD</sub> | Power Dissipation Capacitance | f = 10MHz       | 17                     | 19                     | 20                     | 21                   | pF   |

## Parameter Measurement Information



| $V_{CC}$         | Inputs   |              | $V_M$      | $C_L$ | $R_L$        |
|------------------|----------|--------------|------------|-------|--------------|
|                  | $V_I$    | $t_R/t_F$    |            |       |              |
| $1.8V \pm 0.15V$ | $V_{CC}$ | $\leq 2ns$   | $V_{CC}/2$ | 30pF  | 1k $\Omega$  |
| $2.5V \pm 0.2V$  | $V_{CC}$ | $\leq 2ns$   | $V_{CC}/2$ | 30pF  | 500 $\Omega$ |
| $3.3V \pm 0.3V$  | 3V       | $\leq 2.5ns$ | 1.5V       | 50pF  | 500 $\Omega$ |
| $5V \pm 0.5V$    | $V_{CC}$ | $\leq 2.5ns$ | $V_{CC}/2$ | 50pF  | 500 $\Omega$ |

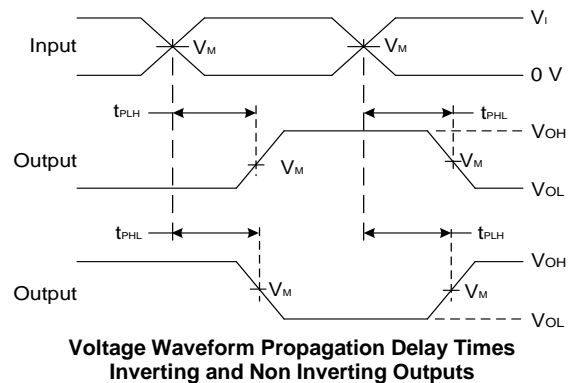
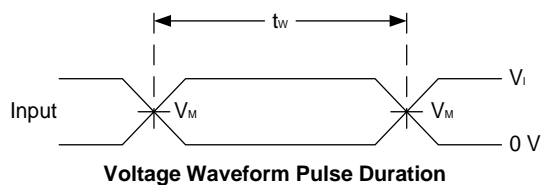
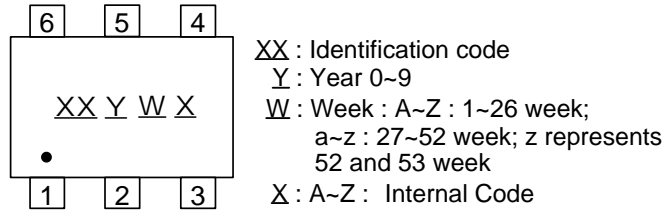


Figure 1 Load Circuit and Voltage Waveforms

- Notes:
- A. Includes test lead and test apparatus capacitance.
  - B. All pulses are supplied at pulse repetition rate  $\leq 10MHz$ .
  - C. Inputs are measured separately one transition per measurement.
  - D.  $t_{PLH}$  and  $t_{PHL}$  are the same as  $t_{PD}$ .

## Marking Information

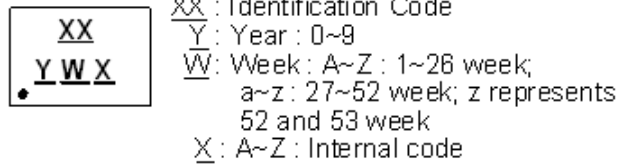
### (1) SOT26 (SC74R), SOT363



| Part Number   | Package       | Identification Code |
|---------------|---------------|---------------------|
| 74LVC2G17W6-7 | SOT26 (SC74R) | Z6                  |
| 74LVC2G17DW-7 | SOT363        | Z6                  |

### (2) X1-DFN1010-6, X2-DFN1010-6, X2-DFN1409-6, X2-DFN1410-6

#### (Top View)

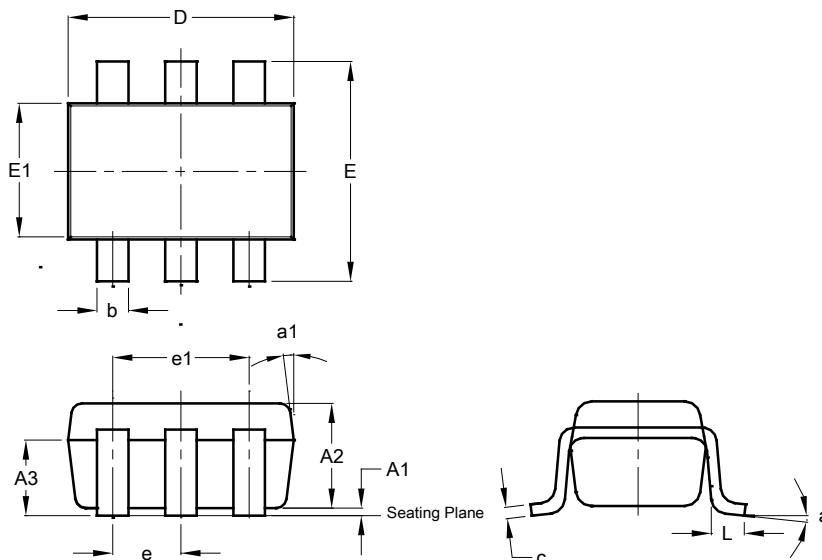


| Part Number    | Package      | Identification Code |
|----------------|--------------|---------------------|
| 74LVC2G17FW4-7 | X2-DFN1010-6 | Z6                  |
| 74LVC2G17FW5-7 | X1-DFN1010-6 | W6                  |
| 74LVC2G17FX4-7 | X2-DFN1409-6 | X6                  |
| 74LVC2G17FZ4-7 | X2-DFN1410-6 | Z6                  |

## Package Outline Dimensions

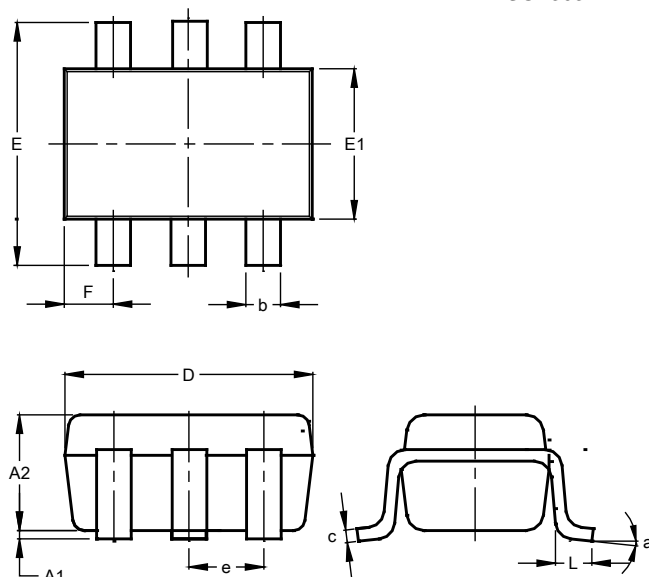
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

SOT26 (SC74R)



| SOT26 (SC74R)        |       |      |      |
|----------------------|-------|------|------|
| Dim                  | Min   | Max  | Typ  |
| A1                   | 0.013 | 0.10 | 0.05 |
| A2                   | 1.00  | 1.30 | 1.10 |
| A3                   | 0.70  | 0.80 | 0.75 |
| b                    | 0.35  | 0.50 | 0.38 |
| c                    | 0.10  | 0.20 | 0.15 |
| D                    | 2.90  | 3.10 | 3.00 |
| e                    | —     | —    | 0.95 |
| e1                   | —     | —    | 1.90 |
| E                    | 2.70  | 3.00 | 2.80 |
| E1                   | 1.50  | 1.70 | 1.60 |
| L                    | 0.35  | 0.55 | 0.40 |
| a                    | —     | —    | 8°   |
| a1                   | —     | —    | 7°   |
| All Dimensions in mm |       |      |      |

SOT363

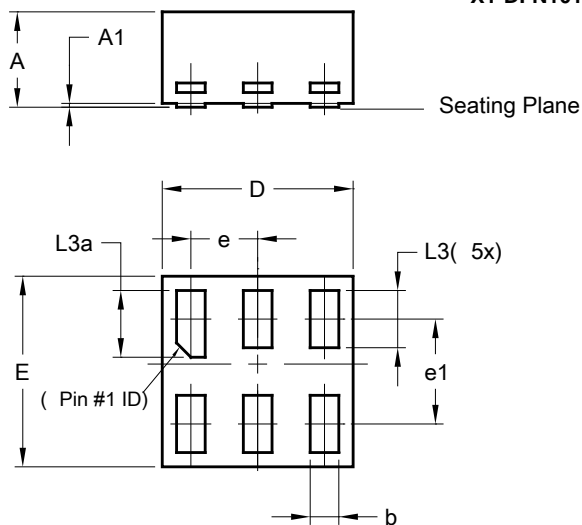


| SOT363               |           |      |       |
|----------------------|-----------|------|-------|
| Dim                  | Min       | Max  | Typ   |
| A1                   | 0.00      | 0.10 | 0.05  |
| A2                   | 0.90      | 1.00 | 0.95  |
| b                    | 0.10      | 0.30 | 0.25  |
| c                    | 0.10      | 0.22 | 0.11  |
| D                    | 1.80      | 2.20 | 2.15  |
| E                    | 2.00      | 2.20 | 2.10  |
| E1                   | 1.15      | 1.35 | 1.30  |
| e                    | 0.650 BSC |      |       |
| F                    | 0.40      | 0.45 | 0.425 |
| L                    | 0.25      | 0.40 | 0.30  |
| a                    | 0°        | 8°   | —     |
| All Dimensions in mm |           |      |       |

# Package Outline Dimensions (continued)

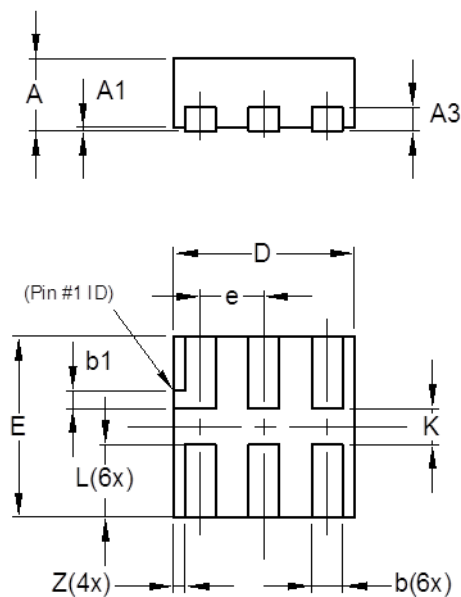
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

**X1-DFN1010-6 (Type B)**



| X1-DFN1010-6<br>(Type B) |          |       |      |
|--------------------------|----------|-------|------|
| Dim                      | Min      | Max   | Typ  |
| A                        | —        | 0.50  | 0.39 |
| A1                       | —        | 0.04  | —    |
| b                        | 0.12     | 0.20  | 0.15 |
| D                        | 0.95     | 1.050 | 1.00 |
| E                        | 0.95     | 1.050 | 1.00 |
| e                        | 0.35 BSC |       |      |
| e1                       | 0.55 BSC |       |      |
| L3                       | 0.27     | 0.30  | 0.30 |
| L3a                      | 0.32     | 0.40  | 0.35 |
| All Dimensions in mm     |          |       |      |

**X2-DFN1010-6**



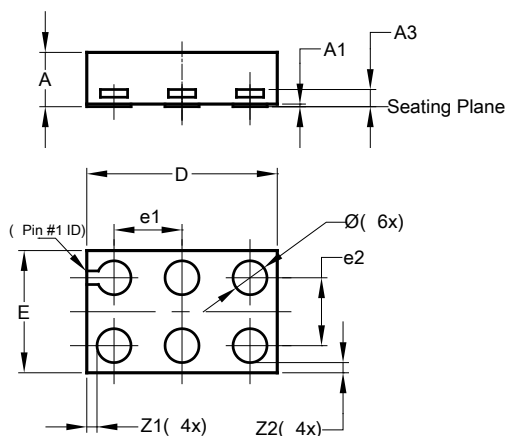
| X2-DFN1010-6         |      |      |       |
|----------------------|------|------|-------|
| Dim                  | Min  | Max  | Typ   |
| A                    | —    | 0.40 | 0.39  |
| A1                   | 0.00 | 0.05 | 0.02  |
| A3                   | —    | —    | 0.13  |
| b                    | 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 |      |      |       |



## Package Outline Dimensions (continued)

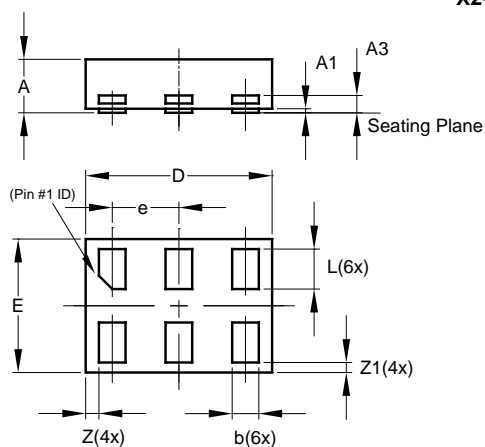
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

**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 |      |      |       |

**X2-DFN1410-6**

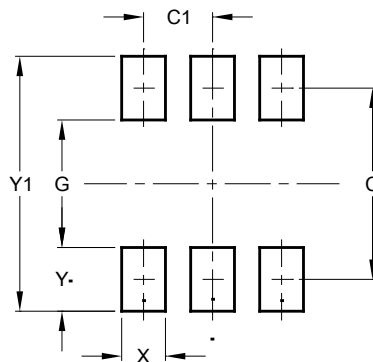


| X2-DFN1410-6         |       |       |       |
|----------------------|-------|-------|-------|
| Dim                  | Min   | Max   | Typ   |
| A                    | —     | 0.40  | 0.39  |
| A1                   | 0.00  | 0.05  | 0.02  |
| A3                   | —     | —     | 0.13  |
| b                    | 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

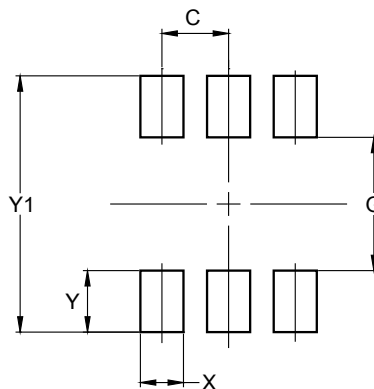
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

### SOT26 (SC74R)



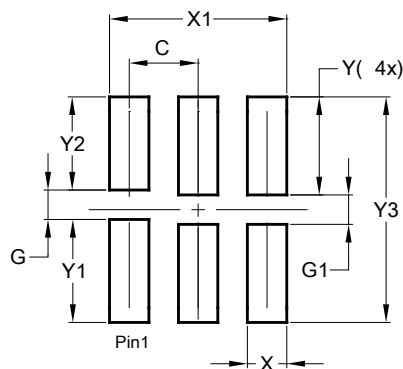
| Dimensions | Value (in mm) |
|------------|---------------|
| C          | 2.40          |
| C1         | 0.95          |
| G          | 1.60          |
| X          | 0.55          |
| Y          | 0.80          |
| Y1         | 3.20          |

### SOT363



| Dimensions | Value (in mm) |
|------------|---------------|
| C          | 0.650         |
| G          | 1.300         |
| X          | 0.420         |
| Y          | 0.600         |
| Y1         | 2.500         |

### X1-DFN1010-6 (Type B)

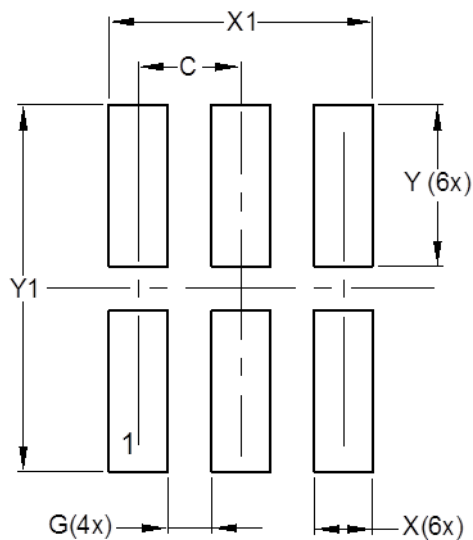


| Dimensions | Value (in mm) |
|------------|---------------|
| C          | 0.350         |
| G          | 0.150         |
| G1         | 0.150         |
| X          | 0.200         |
| X1         | 0.900         |
| Y          | 0.500         |
| Y1         | 0.525         |
| Y2         | 0.475         |
| Y3         | 1.150         |

## Suggested Pad Layout (continued)

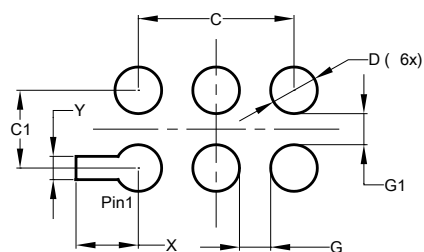
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

**X2-DFN1010-6**



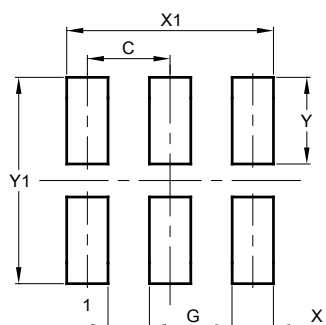
| Dimensions | Value (in mm) |
|------------|---------------|
| C          | 0.350         |
| G          | 0.150         |
| X          | 0.200         |
| X1         | 0.900         |
| Y          | 0.550         |
| Y1         | 1.250         |

**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         |

**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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