



## Description

The AP7370 series is a positive voltage regulator IC.

The AP7370 has features of wide input voltage range, high accuracy, low dropout voltage, current limit, reverse current protection, and ultra-low quiescent current which make it ideal for use in various USB and portable devices and instrument application.

The IC consists of a voltage reference, an error amplifier, a resistor network for setting output voltage, a current limit circuit for current protection, and a chip enable circuit.

The AP7370 is available in 1.2V, 1.5V, 1.8V, 2.8V, 3.0V, 3.3V, 3.6V and 5.0V fixed output voltage versions.

The AP7370 is available in space-saving SOT23, SOT25, SOT89 and U-DFN2020-6 (Type C) packages.

## Features

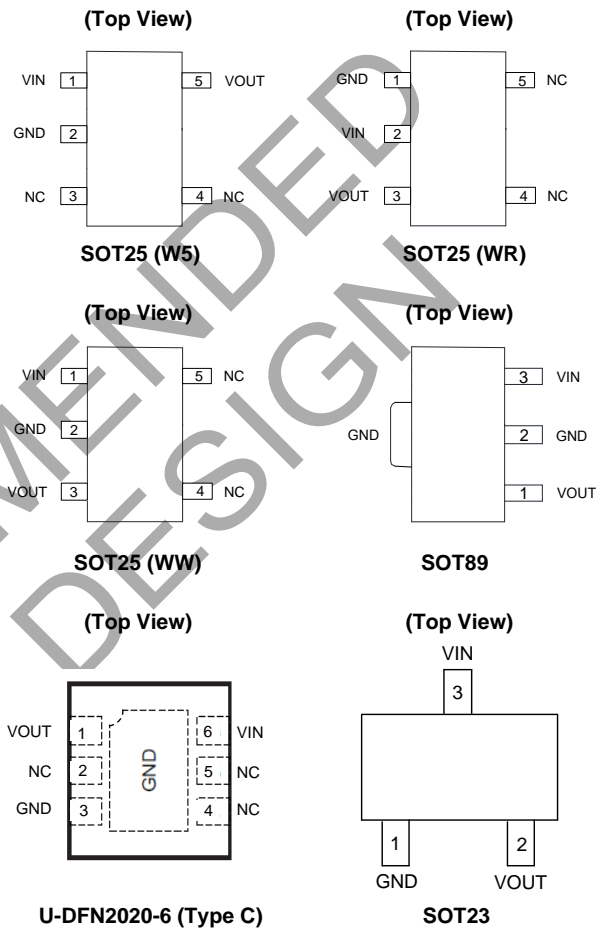
- Wide Input Voltage Range: Up to 18V
- Low Dropout Voltage:  $V_{DROP} = 500mV @ I_{OUT} = 100mA$
- Low Ground Current
- High Output Voltage Accuracy
- Compatible with Low ESR Ceramic Capacitor
- Excellent Line/Load Regulation
- Thermal Shutdown Function
- Short Current Protection
- Reverse Current Protection

## Applications

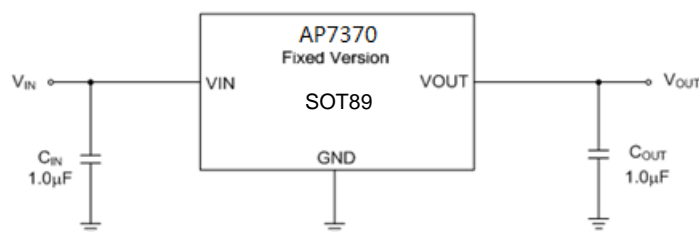
- Battery-Powered Equipment
- Laptop, Palmtops, Notebook Computers
- Portable Information Appliances
- Metering
- Weighing Scales

- Notes:
1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.
  2. See <https://www.diodes.com/quality/lead-free/> 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.

## Pin Assignments



## Typical Applications Circuit



## Pin Descriptions

| Pin Number |            |            |       |       |                      | Pin Name | Function                        |
|------------|------------|------------|-------|-------|----------------------|----------|---------------------------------|
| SOT25 (W5) | SOT25 (WR) | SOT25 (WW) | SOT89 | SOT23 | U-DFN2020-6 (Type C) |          |                                 |
| 1          | 2          | 1          | 3     | 3     | 6                    | VIN      | Input voltage                   |
| 2          | 1          | 2          | 2     | 1     | 3                    | GND      | Ground                          |
| 3, 4       | 4, 5       | 4, 5       | —     | —     | 2, 4, 5              | NC       | Not connected for fixed version |
| 5          | 3          | 3          | 1     | 2     | 1                    | VOUT     | Regulated output voltage        |
| —          | —          | —          | —     | —     | EP                   | GND      | Ground                          |

## Absolute Maximum Ratings

| Symbol            | Parameter                                | Rating               | Unit |      |
|-------------------|--|----------------------|------|------|
| V <sub>IN</sub>   | Supply Input Voltage                     | 20                   | V    |      |
| I <sub>OUT</sub>  | Output Current                           | 500                  | mA   |      |
| T <sub>LEAD</sub> | Lead Temperature (Soldering, 10s)        | +260                 | °C   |      |
| T <sub>J</sub>    | Operating Junction Temperature           | +150                 | °C   |      |
| θ <sub>JA</sub>   | Thermal Resistance (Junction to Ambient) | SOT23                | 205  | °C/W |
|                   |  | SOT25                | 155  |      |
|                   |  | SOT89                | 126  |      |
|                   |  | U-DFN2020-6 (Type C) | 54   |      |
| θ <sub>JC</sub>   | Thermal Resistance (Junction to Case)    | SOT23                | 37   | °C/W |
|                   |  | SOT25                | 23   |      |
|                   |  | SOT89                | 26   |      |
|                   |  | U-DFN2020-6 (Type C) | 9.5  |      |
| T <sub>STG</sub>  | Storage Temperature Range                | -65 to +150          | °C   |      |
| —                 | ESD (Change Device Model)                | 1500                 | V    |      |
| —                 | ESD (Human Body Model)                   | 6000                 | V    |      |

## Recommended Operating Conditions

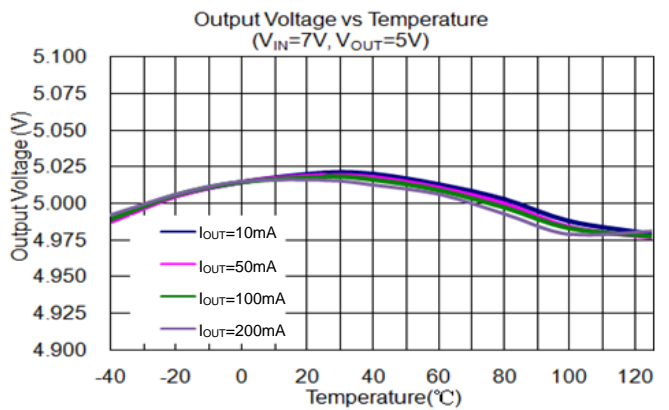
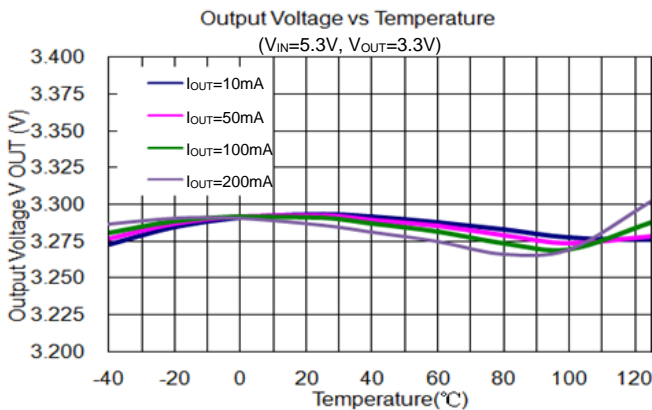
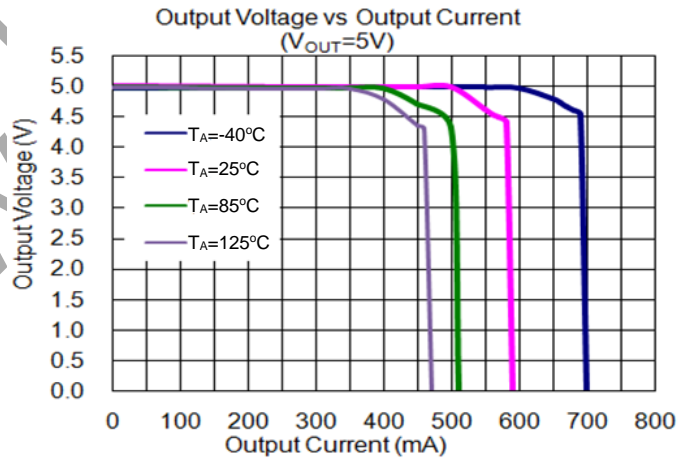
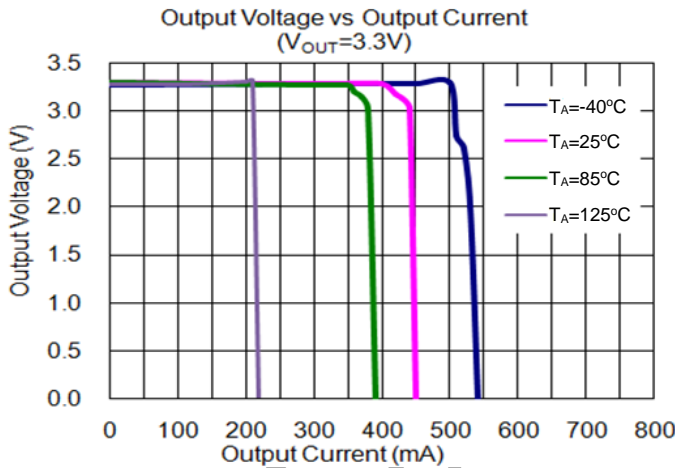
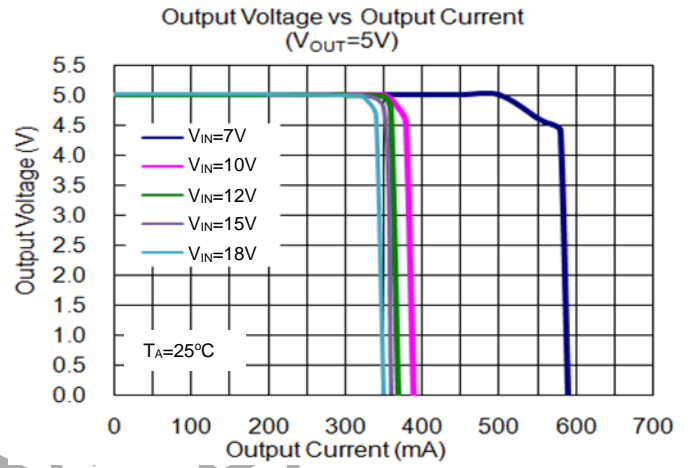
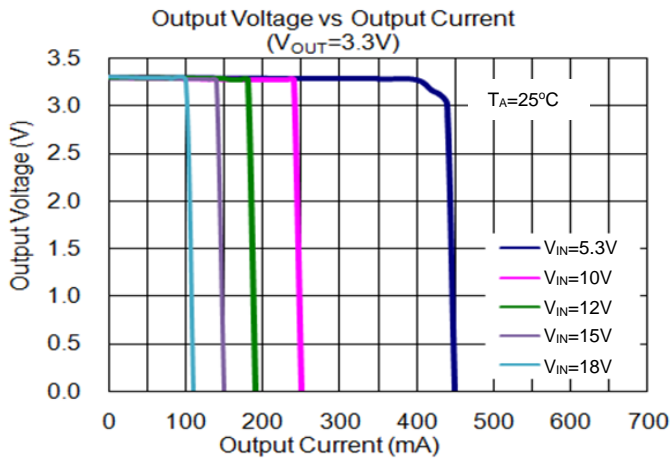
| Symbol          | Parameter                      | Min | Max  | Unit |
|-----------------|--------------------------------|-----|------|------|
| V <sub>IN</sub> | Supply Input Voltage           | 3.2 | 18   | V    |
| T <sub>J</sub>  | Operating Junction Temperature | -40 | +125 | °C   |

**Electrical Characteristics** (@ $T_A = -40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ ,  $V_{IN} = V_{OUT(Typ)} + 1\text{V}$  or  $2.7\text{V}$  (whichever is greater),  $I_{OUT} = 10\text{mA}$ , and  $C_{IN} = C_{OUT} = 1.0\mu\text{F}$  ceramic, unless otherwise noted. Typical values are at  $T_A = +25^{\circ}\text{C}$ .)

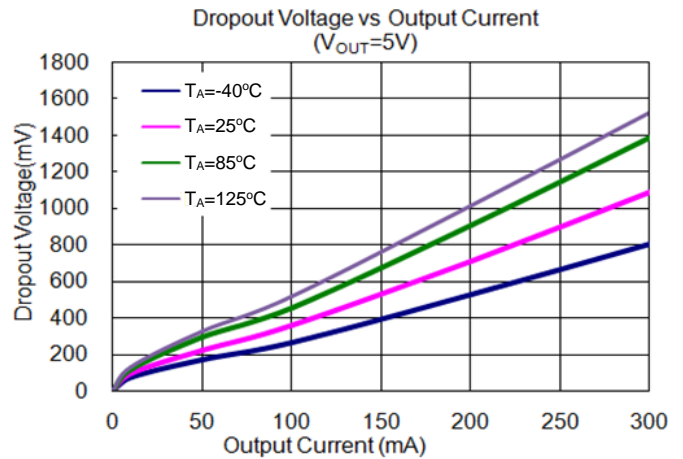
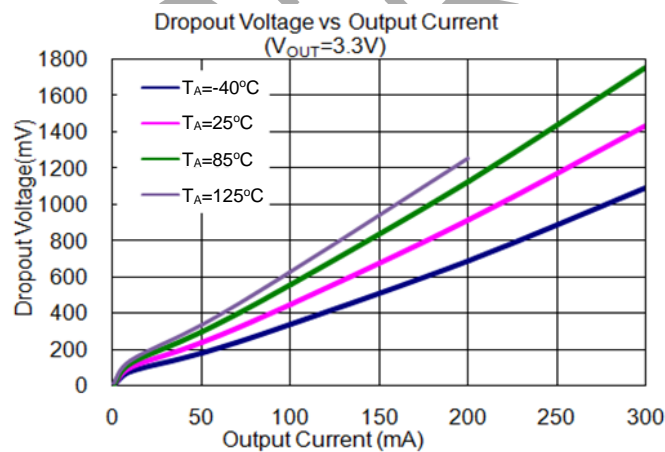
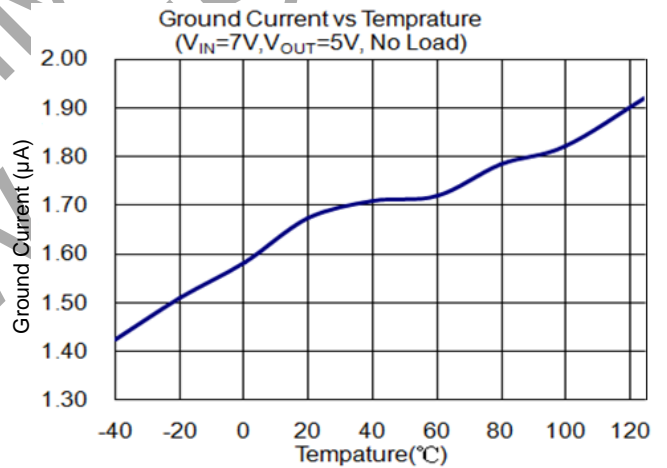
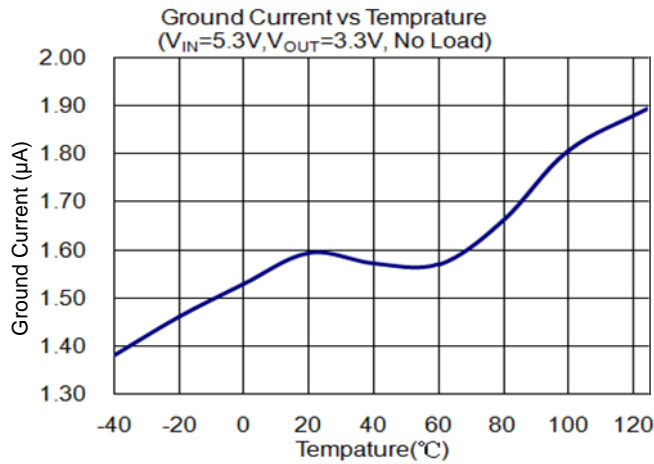
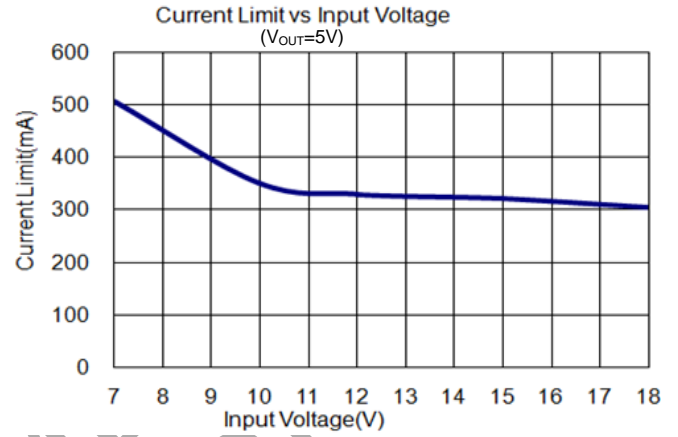
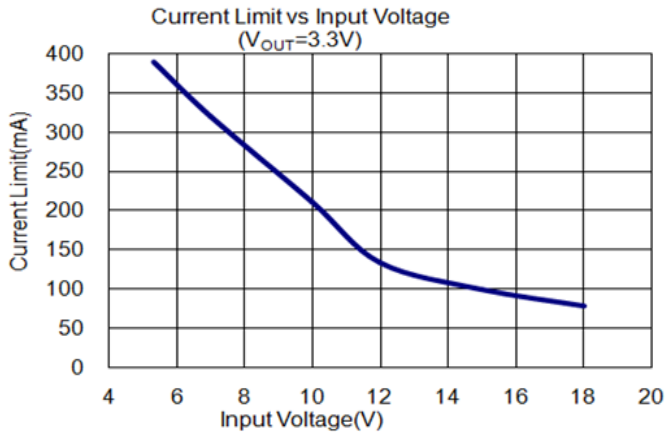
| Symbol                                     | Parameter                              | Test Conditions   | Min                   | Typ       | Max                    | Unit                    |
|--|--|---|-----------------------|-----------|------------------------|-------------------------|
| $V_{OUT}$                                  | Output Voltage                         | $V_{OUT} > 2.5\text{V}$   | $V_{OUT} \times 99\%$ | $V_{OUT}$ | $V_{OUT} \times 101\%$ | V                       |
|  |  | $V_{OUT} \leq 2.5\text{V}$  | $V_{OUT} \times 98\%$ | $V_{OUT}$ | $V_{OUT} \times 102\%$ | V                       |
| $V_{IN}$                                   | Input Voltage                          | —   | 3.2                   | —         | 18                     | V                       |
| $I_{LIMIT}$                                | Current Limit (Note 4)                 | $V_{OUT} > 2.5\text{V}$ , $V_{OUT1} = 98\% \times V_{OUT}$  | 350                   | —         | —                      | mA                      |
|  |  | $V_{OUT} \leq 2.5\text{V}$ , $V_{OUT1} = 98\% \times V_{OUT}$   | 200                   | —         | —                      | mA                      |
| $\Delta V_{OUT}/\Delta V_{IN}/V_{OUT}$     | Line Regulation                        | $(V_{OUT(Nom)} + 1\text{V}, 3.2\text{V}) \leq V_{IN} \leq 18\text{V}$ , $I_{OUT} = 10\text{mA}$           | —                     | 0.05      | —                      | %/V                     |
| $\Delta V_{OUT}/V_{OUT}$                   | Load Regulation                        | $V_{OUT} > 2.5\text{V}$ , $V_{IN} = V_{OUT} + 2\text{V}$ , $1\text{mA} \leq I_{OUT} \leq 300\text{mA}$    | —                     | 0.5       | —                      | %                       |
|  |  | $V_{OUT} \leq 2.5\text{V}$ , $V_{IN} = V_{OUT} + 3\text{V}$ , $1\text{mA} \leq I_{OUT} \leq 150\text{mA}$ | —                     | 0.5       | —                      | %                       |
| $V_{DROP}$                                 | Dropout Voltage (Notes 5, 6)           | $3.0\text{V} \leq V_{OUT} < 5.0\text{V}$   $I_{OUT} = 100\text{mA}$                                       | —                     | 500       | 600                    | mV                      |
|  |  | $V_{OUT} = 5.0\text{V}$   $I_{OUT} = 100\text{mA}$  | —                     | 450       | 550                    | mV                      |
| $I_{GND}$                                  | Ground Current                         | $I_{OUT} = 0\text{A}$   | —                     | 1.5       | 2.5                    | $\mu\text{A}$           |
|  |  | $V_{OUT} > 2.5\text{V}$ , $I_{OUT} = 300\text{mA}$  | —                     | 250       | 300                    |                         |
|  |  | $V_{OUT} \leq 2.5\text{V}$ , $I_{OUT} = 150\text{mA}$   | —                     | 250       | 300                    |                         |
| $\Delta V_{OUT}/(V_{OUT} \times \Delta T)$ | Output Voltage Temperature Coefficient | $I_{OUT} = 100\mu\text{A}$ , $-40^{\circ}\text{C} \leq T_J \leq +125^{\circ}\text{C}$                     | —                     | $\pm 100$ | —                      | ppm/ $^{\circ}\text{C}$ |
| $T_{OTSD}$                                 | Thermal Shutdown Temperature           | —   | —                     | +160      | —                      | $^{\circ}\text{C}$      |
| $T_{HYOTSD}$                               | Thermal Shutdown Hysteresis            | —   | —                     | +20       | —                      | $^{\circ}\text{C}$      |

- Notes:
4. Measured with  $V_{IN} = V_{OUT} + 3\text{V}$  for  $V_{OUT} \leq 2.5\text{V}$ . Measured with  $V_{IN} = V_{OUT} + 2.5\text{V}$  for  $V_{OUT} > 2.5\text{V}$ .
  5.  $V_{DROP}$  is measured with  $V_{IN} = 0.98 \times V_{OUT(Nom)}$ .
  6. Dropout is only valid when  $V_{OUT} \geq 2.8\text{V}$  because of the minimum input voltage limits.

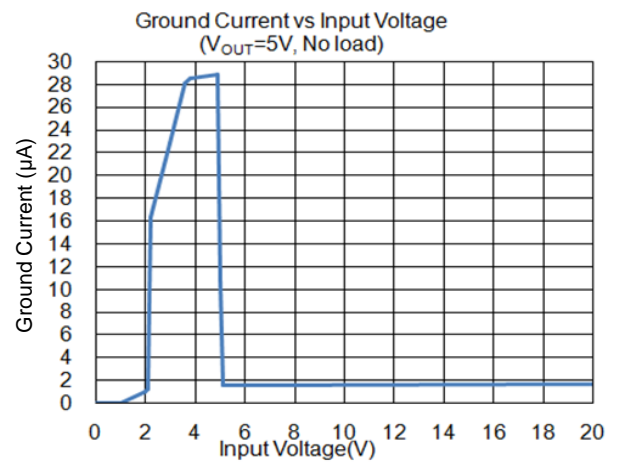
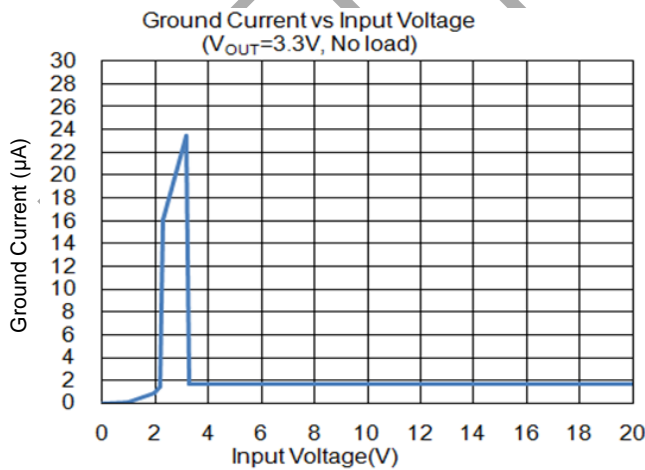
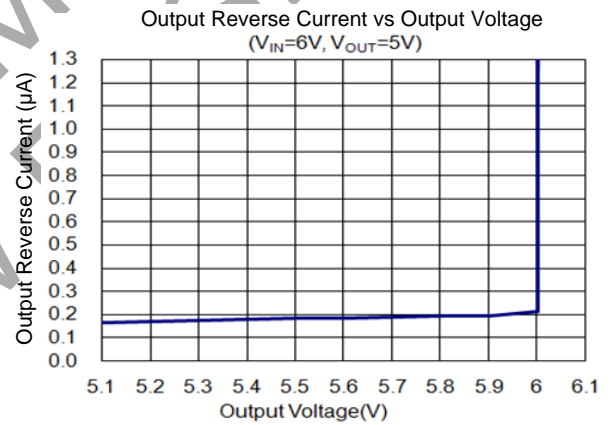
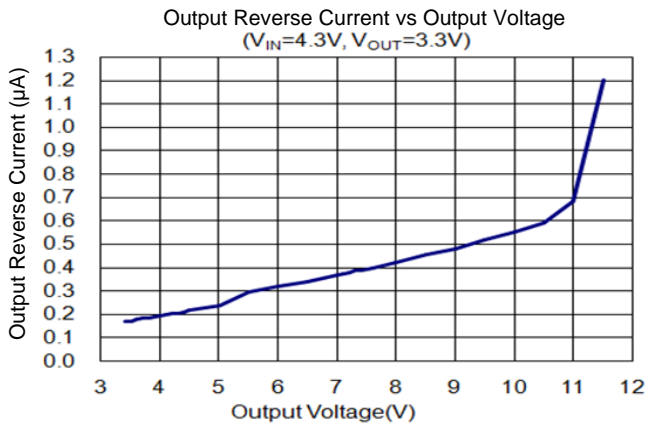
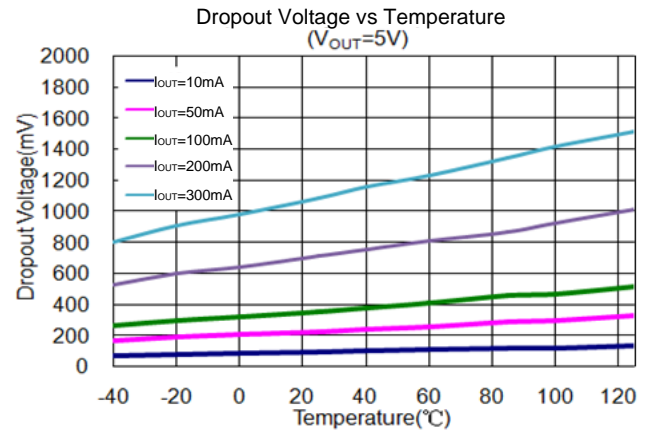
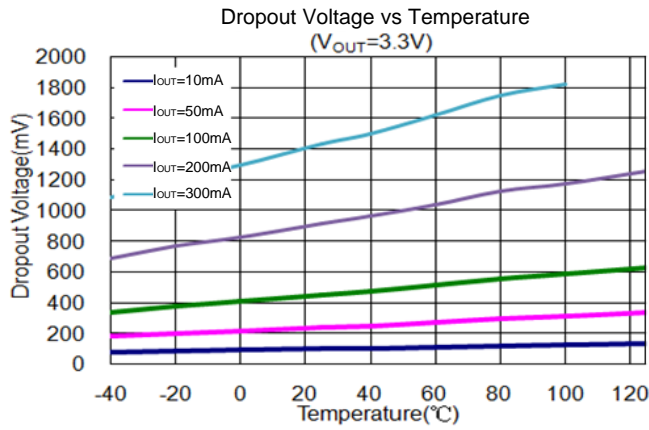
**Performance Characteristics**



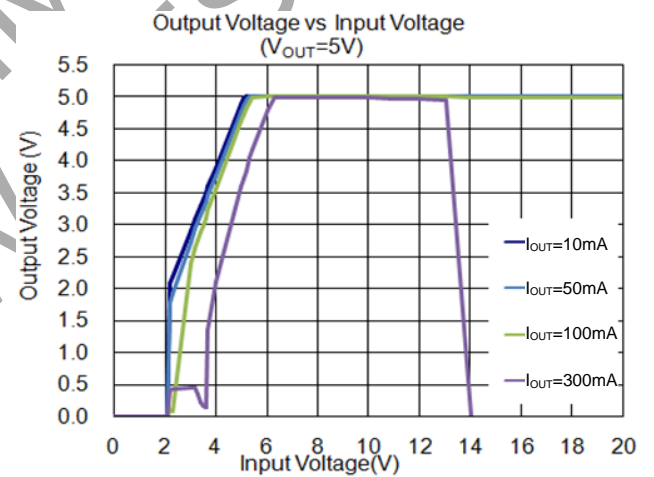
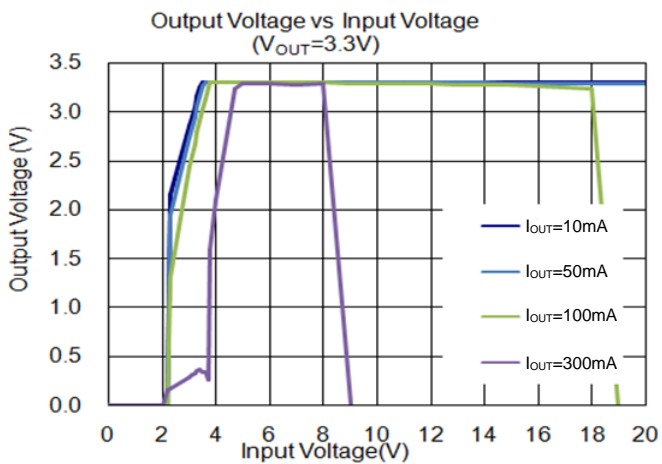
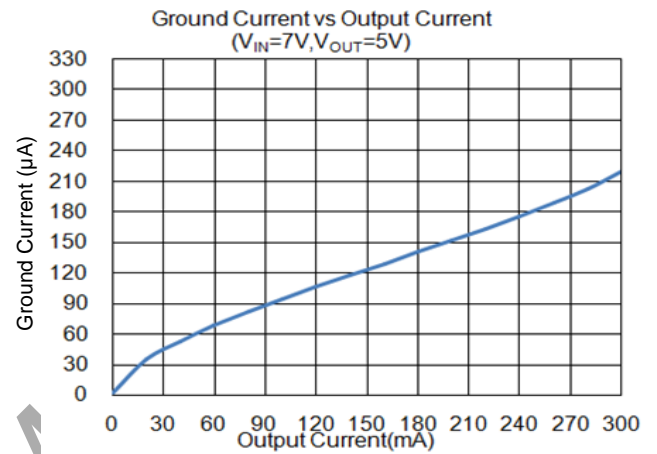
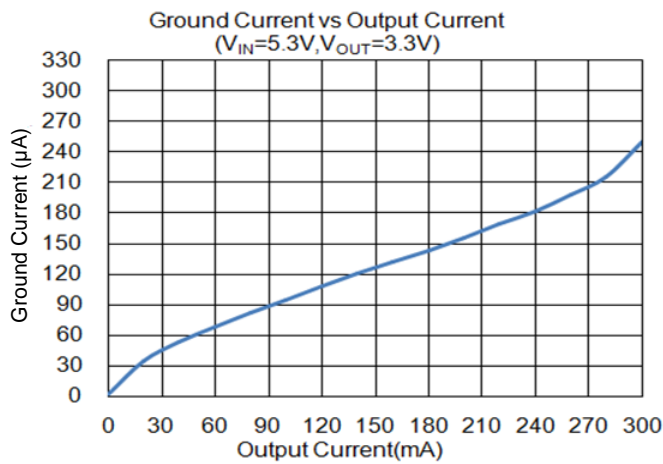
**Performance Characteristics** (continued)



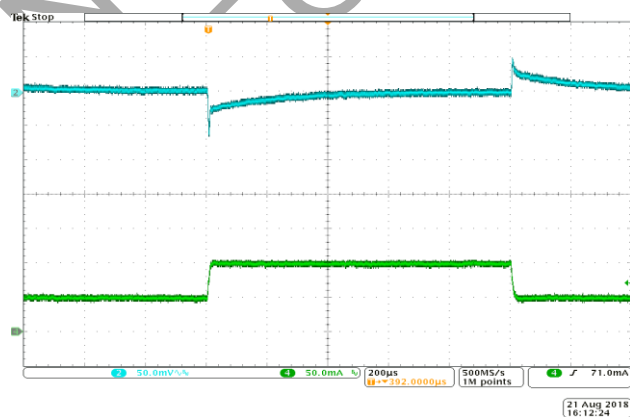
**Performance Characteristics** (continued)



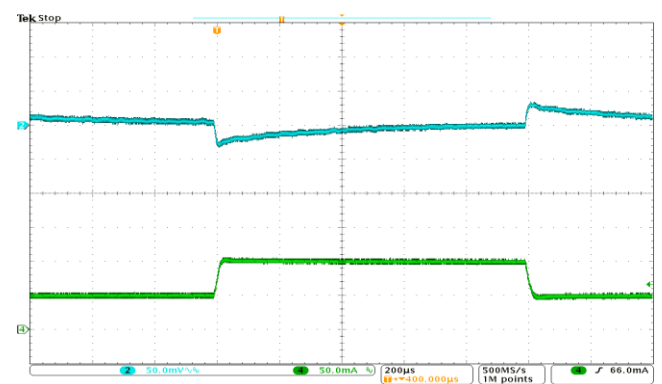
**Performance Characteristics** (continued)



**Load Transient**  
( $V_{IN} = 5.3V, V_{OUT} = 3.3V, \text{Load} = 50\text{mA to } 100\text{mA}, T_A = +25^\circ\text{C}$ )



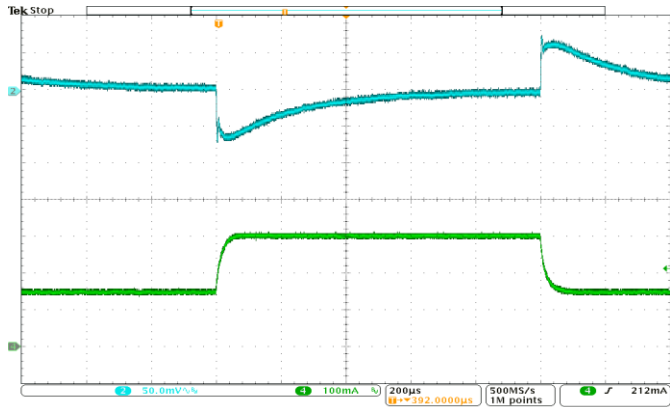
**Load Transient**  
( $V_{IN} = 7V, V_{OUT} = 5V, \text{Load} = 50\text{mA to } 100\text{mA}, T_A = +25^\circ\text{C}$ )



**Performance Characteristics** (continued)

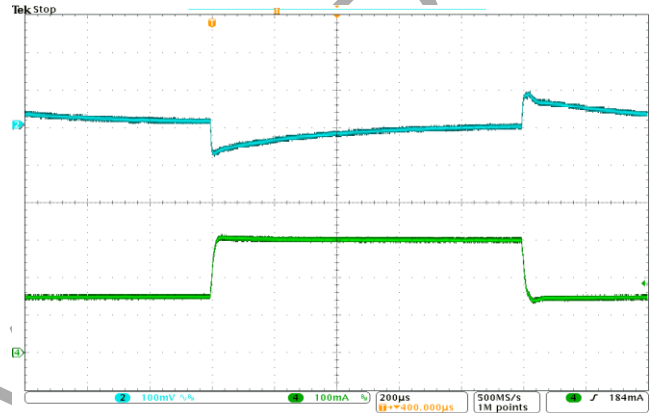
**Load Transient**

$V_{IN} = 5.3V$ ,  $V_{OUT} = 3.3V$ , Load = 150mA to 300mA,  $T_A = +25^\circ C$

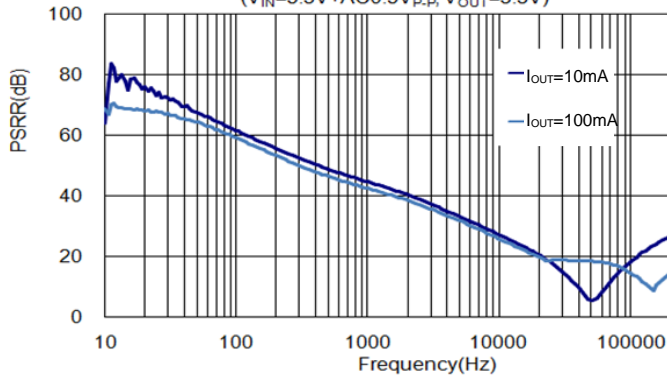


**Load Transient**

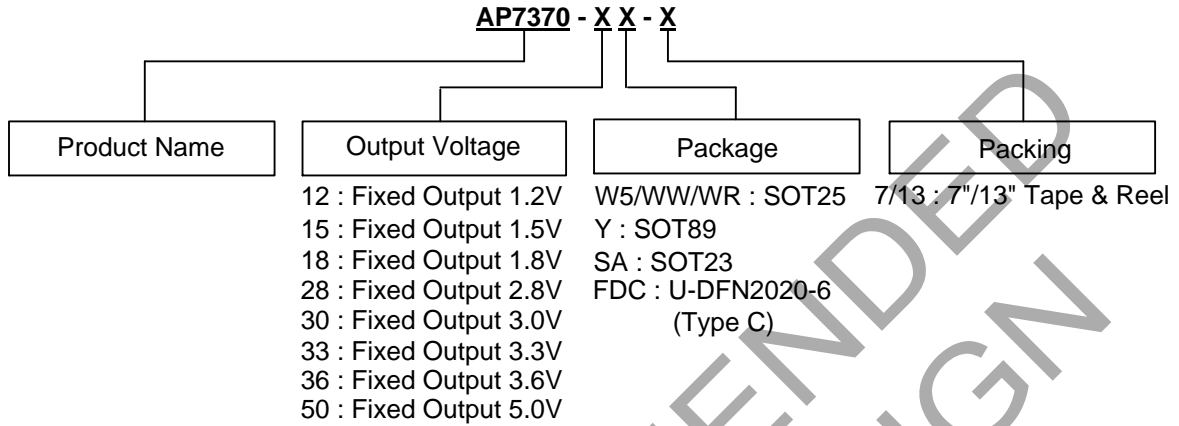
$(V_{IN} = 7V$ ,  $V_{OUT} = 5V$ , Load = 150mA to 300mA,  $T_A = +25^\circ C)$



**PSRR vs Frequency**  
( $V_{IN}=5.3V+AC0.5V_{P-P}$ ,  $V_{OUT}=3.3V$ )



**Ordering Information**



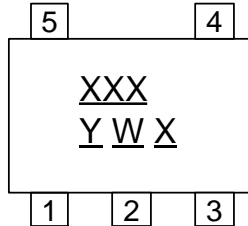
| Part Number    | Package Code | Package              | 7"/13" Tape and Reel |                    |
|----------------|--------------|----------------------|----------------------|--------------------|
|                |              |                      | Quantity             | Part Number Suffix |
| AP7370-XXW5-7  | W5           | SOT25                | 3000/Tape & Reel     | -7                 |
| AP7370-XXWR-7  | WR           | SOT25                | 3000/Tape & Reel     | -7                 |
| AP7370-XXWW-7  | WW           | SOT25                | 3000/Tape & Reel     | -7                 |
| AP7370-XXY-13  | Y            | SOT89                | 2500/Tape & Reel     | -13                |
| AP7370-XXSA-7  | SA           | SOT23                | 3000/Tape & Reel     | -7                 |
| AP7370-XXFDC-7 | FDC          | U-DFN2020-6 (Type C) | 3000/Tape & Reel     | -7                 |

NOT RECOMMENDED FOR NEW DESIGN

**Marking Information**

(1) SOT25

(Top View)



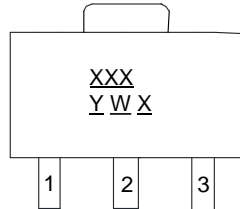
XXX : Identification Code  
 Y : Year 0 to 9  
 W : Week : A to Z : 1 to 26 week;  
 a to z : 27 to 52 week; z represents  
 52 and 53 week  
 X : Internal Code

| Part Number   | Package | Identification Code |
|---------------|---------|---------------------|
| AP7370-12W5-7 | SOT25   | B8A                 |
| AP7370-15W5-7 | SOT25   | B8F                 |
| AP7370-18W5-7 | SOT25   | B8B                 |
| AP7370-28W5-7 | SOT25   | B8G                 |
| AP7370-30W5-7 | SOT25   | B8C                 |
| AP7370-33W5-7 | SOT25   | B8D                 |
| AP7370-36W5-7 | SOT25   | B8E                 |
| AP7370-50W5-7 | SOT25   | B8H                 |
| AP7370-12WR-7 | SOT25   | B8J                 |
| AP7370-15WR-7 | SOT25   | B8R                 |
| AP7370-18WR-7 | SOT25   | B8K                 |
| AP7370-28WR-7 | SOT25   | B8S                 |
| AP7370-30WR-7 | SOT25   | B8M                 |
| AP7370-33WR-7 | SOT25   | B8N                 |
| AP7370-36WR-7 | SOT25   | B8P                 |
| AP7370-50WR-7 | SOT25   | B8T                 |
| AP7370-12WW-7 | SOT25   | B8U                 |
| AP7370-15WW-7 | SOT25   | B8Z                 |
| AP7370-18WW-7 | SOT25   | B8V                 |
| AP7370-28WW-7 | SOT25   | B82                 |
| AP7370-30WW-7 | SOT25   | B8W                 |
| AP7370-33WW-7 | SOT25   | B8X                 |
| AP7370-36WW-7 | SOT25   | B8Y                 |
| AP7370-50WW-7 | SOT25   | B83                 |

**Marking Information** (continued)

(2) SOT89

(Top View)

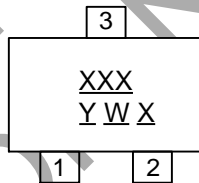


XXX : Identification Code  
 Y : Year : 0 ~ 9  
 W : Week : A ~ Z : 1 ~ 26 Week;  
       a ~ z : 27 ~ 52 Week;  
       z Represents 52 and 53 Week  
 X : Internal Code

| Part Number   | Package | Identification Code |
|---------------|---------|---------------------|
| AP7370-12Y-13 | SOT89   | B8A                 |
| AP7370-15Y-13 | SOT89   | B8F                 |
| AP7370-18Y-13 | SOT89   | B8B                 |
| AP7370-28Y-13 | SOT89   | B8G                 |
| AP7370-30Y-13 | SOT89   | B8C                 |
| AP7370-33Y-13 | SOT89   | B8D                 |
| AP7370-36Y-13 | SOT89   | B8E                 |
| AP7370-50Y-13 | SOT89   | B8H                 |

(3) SOT23

(Top View)



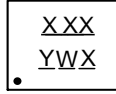
XXX : Identification Code  
 Y : Year 0 to 9  
 W : Week : A to Z : 1 to 26 week;  
       a to z : 27 to 52 week; z represents  
       52 and 53 week  
 X : Internal Code

| Part Number   | Package | Identification Code |
|---------------|---------|---------------------|
| AP7370-12SA-7 | SOT23   | B8J                 |
| AP7370-15SA-7 | SOT23   | B8R                 |
| AP7370-18SA-7 | SOT23   | B8K                 |
| AP7370-28SA-7 | SOT23   | B8S                 |
| AP7370-30SA-7 | SOT23   | B8M                 |
| AP7370-33SA-7 | SOT23   | B8N                 |
| AP7370-36SA-7 | SOT23   | B8P                 |
| AP7370-50SA-7 | SOT23   | B8T                 |

**Ordering Information** (continued)

(4) U-DFN2020-6 (Type C)

(Top View)



**XXX** : 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** : Internal Code

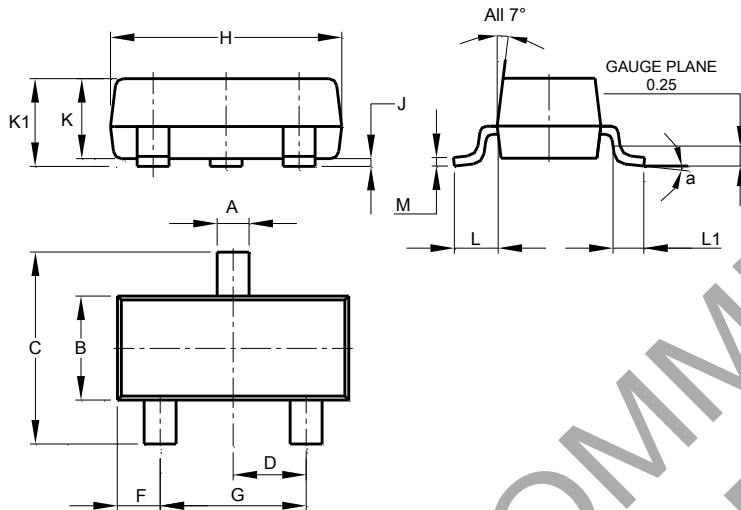
| Device         | Package              | Identification Code |
|----------------|----------------------|---------------------|
| AP7370-12FDC-7 | U-DFN2020-6 (Type C) | B8U                 |
| AP7370-15FDC-7 | U-DFN2020-6 (Type C) | B8Z                 |
| AP7370-18FDC-7 | U-DFN2020-6 (Type C) | B8V                 |
| AP7370-28FDC-7 | U-DFN2020-6 (Type C) | B82                 |
| AP7370-30FDC-7 | U-DFN2020-6 (Type C) | B8W                 |
| AP7370-33FDC-7 | U-DFN2020-6 (Type C) | B8X                 |
| AP7370-36FDC-7 | U-DFN2020-6 (Type C) | B8Y                 |
| AP7370-50FDC-7 | U-DFN2020-6 (Type C) | B83                 |

NOT RECOMMENDED FOR NEW DESIGN

## Package Outline Dimensions

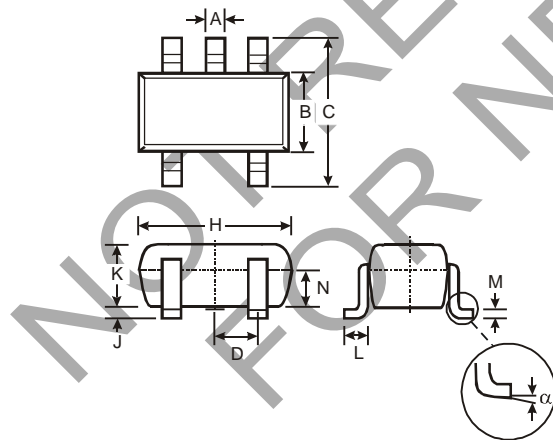
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

### (1) Package Type: SOT23



| SOT23                |       |       |       |
|----------------------|-------|-------|-------|
| Dim                  | Min   | Max   | Typ   |
| A                    | 0.37  | 0.51  | 0.40  |
| B                    | 1.20  | 1.40  | 1.30  |
| C                    | 2.30  | 2.50  | 2.40  |
| D                    | 0.89  | 1.03  | 0.915 |
| F                    | 0.45  | 0.60  | 0.535 |
| G                    | 1.78  | 2.05  | 1.83  |
| H                    | 2.80  | 3.00  | 2.90  |
| J                    | 0.013 | 0.10  | 0.05  |
| K                    | 0.890 | 1.00  | 0.975 |
| K1                   | 0.903 | 1.10  | 1.025 |
| L                    | 0.45  | 0.61  | 0.55  |
| L1                   | 0.25  | 0.55  | 0.40  |
| M                    | 0.085 | 0.150 | 0.110 |
| a                    | 0°    | 8°    | --    |
| All Dimensions in mm |       |       |       |

### (2) Package Type: SOT25

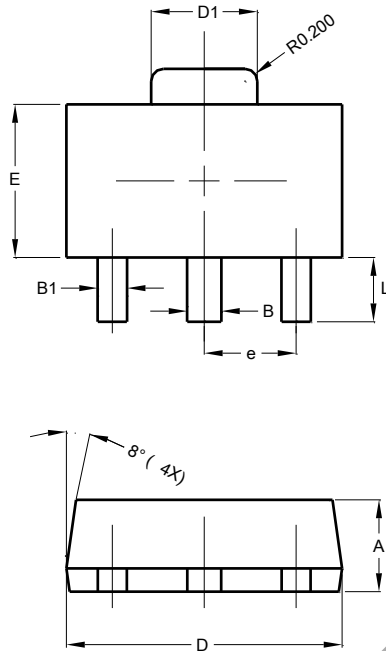


| SOT25                |       |      |      |
|----------------------|-------|------|------|
| Dim                  | Min   | Max  | Typ  |
| A                    | 0.35  | 0.50 | 0.38 |
| B                    | 1.50  | 1.70 | 1.60 |
| C                    | 2.70  | 3.00 | 2.80 |
| D                    | -     | -    | 0.95 |
| H                    | 2.90  | 3.10 | 3.00 |
| J                    | 0.013 | 0.10 | 0.05 |
| K                    | 1.00  | 1.30 | 1.10 |
| L                    | 0.35  | 0.55 | 0.40 |
| M                    | 0.10  | 0.20 | 0.15 |
| N                    | 0.70  | 0.80 | 0.75 |
| α                    | 0°    | 8°   | -    |
| All Dimensions in mm |       |      |      |

**Package Outline Dimensions** (continued)

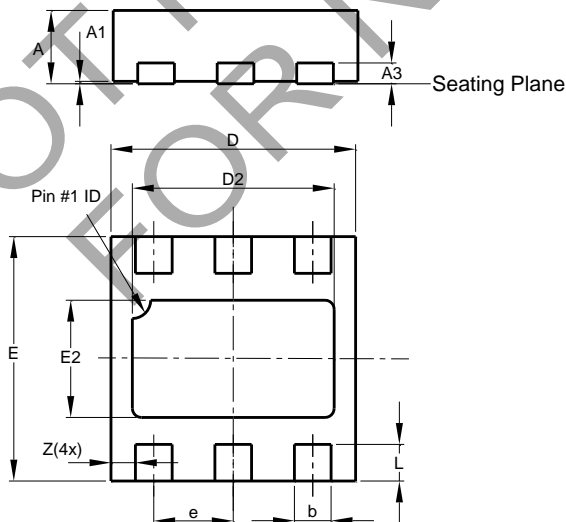
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

**(3) Package Type: SOT89**



| SOT89                |       |       |       |
|----------------------|-------|-------|-------|
| Dim                  | Min   | Max   | Typ   |
| A                    | 1.40  | 1.60  | 1.50  |
| B                    | 0.50  | 0.62  | 0.56  |
| B1                   | 0.42  | 0.54  | 0.48  |
| c                    | 0.35  | 0.43  | 0.38  |
| D                    | 4.40  | 4.60  | 4.50  |
| D1                   | 1.62  | 1.83  | 1.733 |
| D2                   | 1.61  | 1.81  | 1.71  |
| E                    | 2.40  | 2.60  | 2.50  |
| E2                   | 2.05  | 2.35  | 2.20  |
| e                    | -     | -     | 1.50  |
| H                    | 3.95  | 4.25  | 4.10  |
| H1                   | 2.63  | 2.93  | 2.78  |
| L                    | 0.90  | 1.20  | 1.05  |
| L1                   | 0.327 | 0.527 | 0.427 |
| z                    | 0.20  | 0.40  | 0.30  |
| All Dimensions in mm |       |       |       |

**(4) Package Type: U-DFN2020-6 (Type C)**

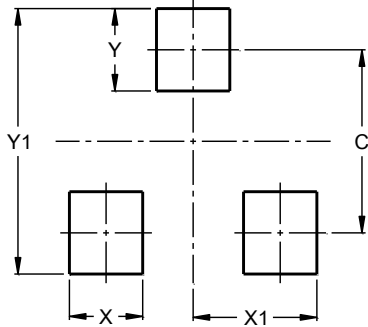


| U-DFN2020-6<br>Type C |      |       |      |
|-----------------------|------|-------|------|
| Dim                   | Min  | Max   | Typ  |
| A                     | 0.57 | 0.63  | 0.60 |
| A1                    | 0.00 | 0.05  | 0.02 |
| A3                    | —    | —     | 0.15 |
| b                     | 0.25 | 0.35  | 0.30 |
| D                     | 1.95 | 2.075 | 2.00 |
| D2                    | 1.55 | 1.75  | 1.65 |
| E                     | 1.95 | 2.075 | 2.00 |
| E2                    | 0.86 | 1.06  | 0.96 |
| e                     | —    | —     | 0.65 |
| L                     | 0.25 | 0.35  | 0.30 |
| Z                     | —    | —     | 0.20 |
| All Dimensions in mm  |      |       |      |

## Suggested Pad Layout

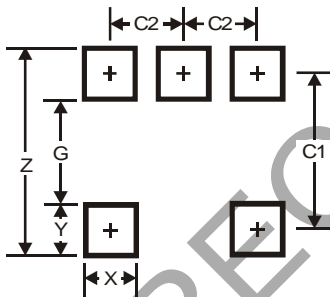
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

### (1) Package Type: SOT23



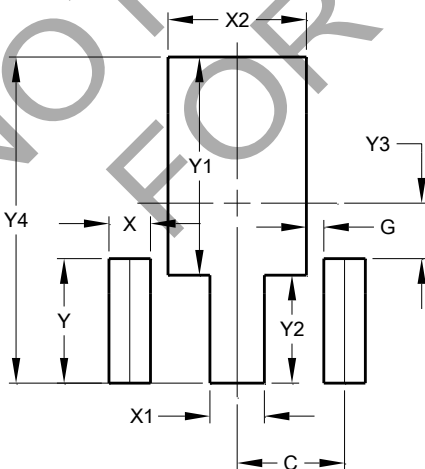
| Dimensions | Value (in mm) |
|------------|---------------|
| C          | 2.0           |
| X          | 0.8           |
| X1         | 1.35          |
| Y          | 0.9           |
| Y1         | 2.9           |

### (2) Package Type: SOT25



| Dimensions | Value |
|------------|-------|
| Z          | 3.20  |
| G          | 1.60  |
| X          | 0.55  |
| Y          | 0.80  |
| C1         | 2.40  |
| C2         | 0.95  |

### (3) Package Type: SOT89

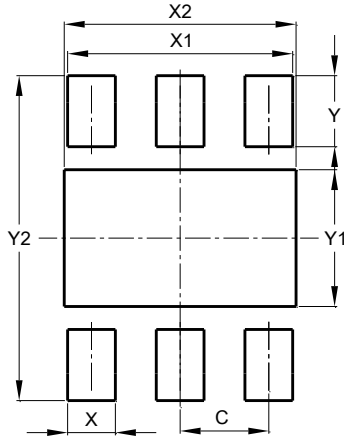


| Dimensions | Value (in mm) |
|------------|---------------|
| C          | 1.500         |
| G          | 0.244         |
| X          | 0.580         |
| X1         | 0.760         |
| X2         | 1.933         |
| Y          | 1.730         |
| Y1         | 3.030         |
| Y2         | 1.500         |
| Y3         | 0.770         |
| Y4         | 4.530         |

**Suggested Pad Layout** (continued)

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

(4) Package Type: U-DFN2020-6 (Type C)



| Dimensions | Value<br>(in mm) |
|------------|------------------|
| C          | 0.650            |
| X          | 0.350            |
| X1         | 1.650            |
| X2         | 1.700            |
| Y          | 0.525            |
| Y1         | 1.010            |
| Y2         | 2.400            |

NOT RECOMMENDED FOR NEW DESIGN

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