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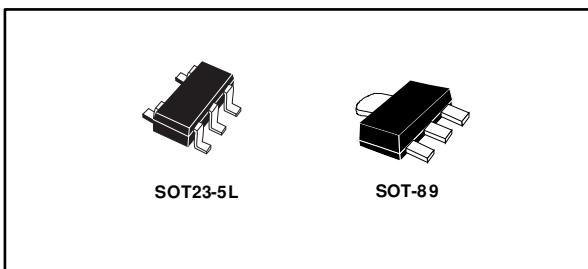
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200 mA high accuracy and high PSRR voltage regulator

Datasheet - production data



Features

- Input voltage from 2.5 to 18 V
- Very low-dropout voltage (100 mV typ. @ 100 mA load)
- Low quiescent current (typ. 60 μ A, 1 μ A in off mode)
- High PSRR: 88 dB@120 Hz
- Low noise
- Output voltage tolerance: $\pm 0.5\%$ @ 25 °C (LDK320A) or $\pm 2\%$ 25 °C
- Output current up to 200 mA
- Wide range of output voltages available on request: fixed from 1.2 V to 12 V with 100 mV step and adjustable
- Logic-controlled electronic shutdown
- Compatible with ceramic capacitor $C_{OUT} = 1 \mu F$
- Current, SOA and thermal protections
- Available in SOT23-5L and SOT-89 packages
- Temperature range: -40 °C to 125 °C

Applications

- DSC
- TV
- BD, DVD
- PC
- Industrial

Description

The LDK320 is a low drop voltage regulator, which provides a maximum output current of 200 mA from an input voltage in the range of 2.5 V to 18 V, with a typical dropout voltage of 100 mV.

It is stabilized with a ceramic capacitor on the output.

The very good dynamic characteristic, combined with low drop voltage and low quiescent current make it suitable for low power battery-powered applications.

The enable logic control function allows the LDK320 to be in shutdown mode by consuming a total current lower than 1 μ A.

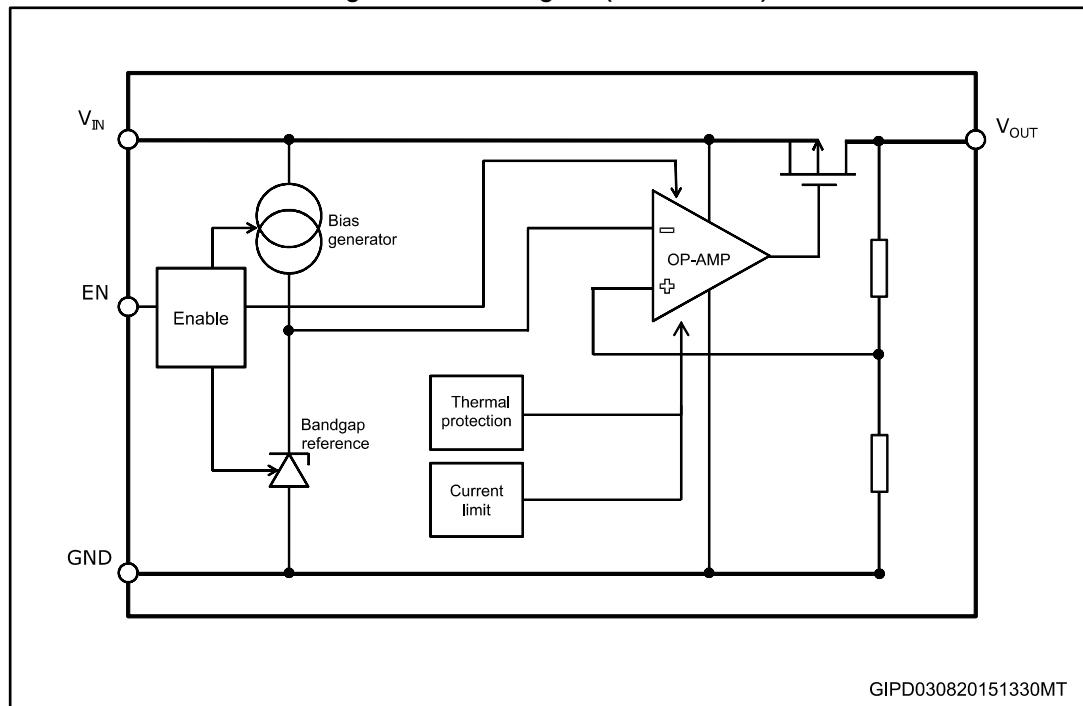
This device also includes a short-circuit current limiting, thermal and SOA protections.

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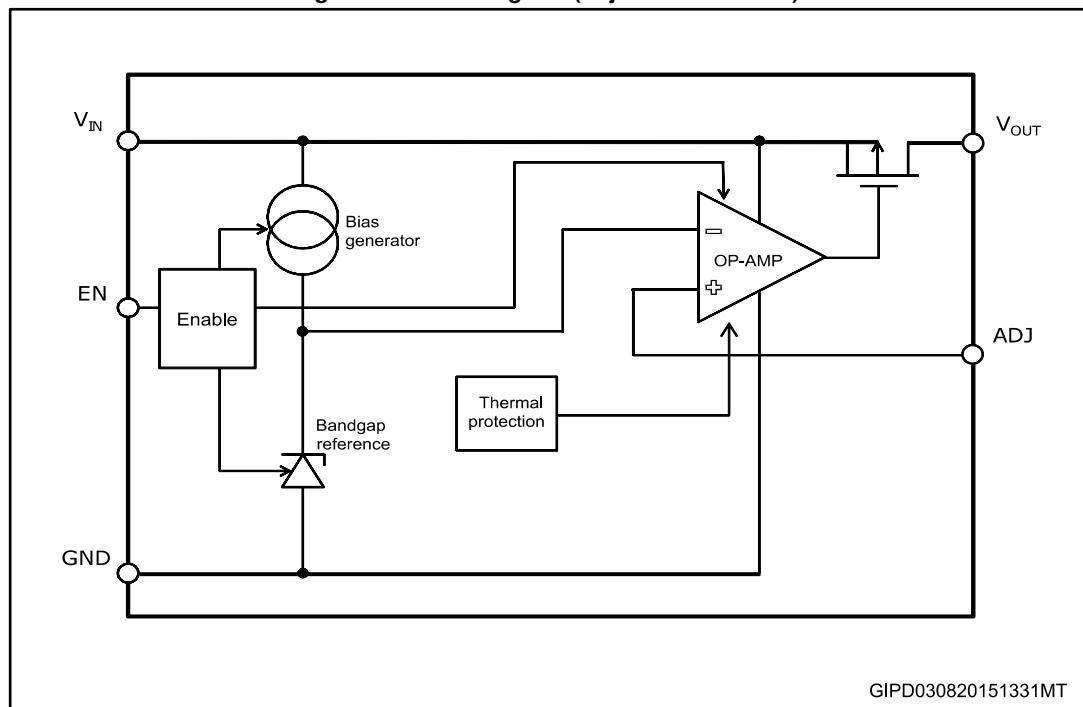
1 Diagram

Figure 1: Block diagram (fixed version)



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Figure 2: Block diagram (adjustable version)



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2 Pin configuration

Figure 3: Pin connection (top view)

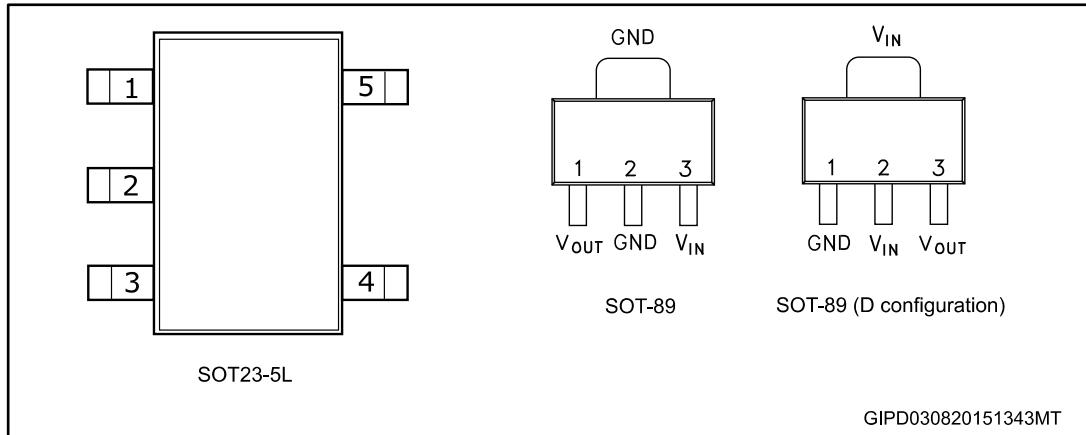


Table 1: Pin description (SOT23-5L)

| Pin n° | Symbol | Function |
|--------|--------|---|
| 1 | IN | Input voltage of the LDO |
| 2 | GND | Common ground |
| 3 | EN | Enable pin logic input: low = shutdown, high = active |
| 4 | ADJ/NC | Adjustable pin on ADJ version, not connected on fixed version |
| 5 | OUT | Output voltage of the LDO |

Table 2: Pin description (SOT-89)

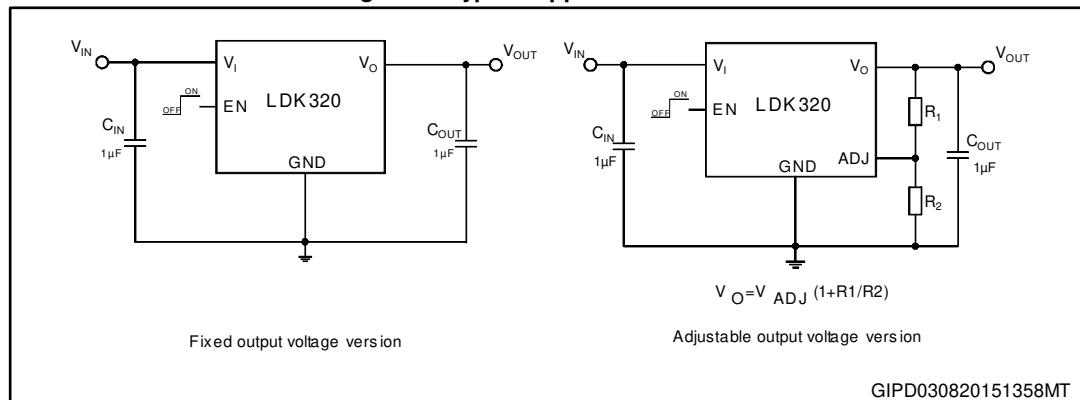
| Pin n° | Symbol | Function |
|--------|--------|---------------------------|
| 1 | OUT | Output voltage of the LDO |
| 2 | GND | Common ground |
| 3 | IN | Input voltage of the LDO |
| TAB | GND | Common ground |

Table 3: Pin description (SOT-89, D configuration)

| Pin n° | Symbol | Function |
|--------|--------|---------------------------|
| 1 | GND | Common ground |
| 2 | IN | Input voltage of the LDO |
| 3 | OUT | Output voltage of the LDO |
| TAB | IN | Input voltage of the LDO |

3 Typical application

Figure 4: Typical application circuits



Adjustable version and enable pin are not available on SOT-89 package.



4 Maximum ratings

Table 4: Absolute maximum ratings

| Symbol | Parameter | Value | Unit |
|-------------|--------------------------------------|----------------------|------|
| V_{IN} | DC input voltage | - 0.3 to 20 | V |
| V_{OUT} | DC output voltage | - 0.3 to $V_I + 0.3$ | V |
| V_{EN} | Enable input voltage | - 0.3 to $V_I + 0.3$ | V |
| V_{ADJ} | ADJ pin voltage | - 0.3 to 2 | V |
| I_{OUT} | Output current | Internally limited | mA |
| $P_D^{(1)}$ | Power dissipation | Internally limited | mW |
| T_{STG} | Storage temperature range | - 65 to 150 | °C |
| T_{OP} | Operating junction temperature range | - 40 to 125 | °C |

Notes:

⁽¹⁾Maximum power dissipation must be calculated by taking into account the package and thermal performance.



Absolute maximum ratings are those values beyond which damage to the device may occur. Functional operation under these conditions is not implied. All values are referred to GND.

Table 5: Thermal data

| Symbol | Parameter | SOT23-5L | SOT-89 | Unit |
|------------|-------------------------------------|----------|--------|------|
| R_{thJA} | Thermal resistance junction-ambient | 160 | 110 | °C/W |
| R_{thJC} | Thermal resistance junction-case | 68 | 15 | °C/W |

5 Electrical characteristics

$T_J = 25^\circ\text{C}$, $V_{IN} = V_{OUT(NOM)} + 1\text{ V}$, $C_{IN} = C_{OUT} = 1\text{ }\mu\text{F}$, $I_{OUT} = 1\text{ mA}$, $V_{EN} = V_{IN}$, unless otherwise specified.

Table 6: LDK320 electrical characteristics (fixed output version)

| Symbol | Parameter | Test conditions | Min. | Typ. | Max. | Unit |
|------------|-----------------------------------|---|------|-------|-------|-------------------------------------|
| V_{IN} | Operating input voltage | | 2.5 | | 18 | V |
| V_{OUT} | V_{OUT} accuracy | $T_J = 25^\circ\text{C}$ | -2 | | 2 | % |
| | | $-40^\circ\text{C} < T_J < 125^\circ\text{C}$ | -3 | | 3 | % |
| | V_{OUT} accuracy, LDK320A | $T_J = 25^\circ\text{C}$ | -0.5 | | 0.5 | % |
| | | $-40^\circ\text{C} < T_J < 125^\circ\text{C}$ | -1.5 | | 1.5 | % |
| V_{OUT} | Static line regulation | $V_{OUT} +1\text{ V}$ $V_{IN} 18\text{ V}$ | | 0.001 | 0.05 | %/V |
| V_{OUT} | Static load regulation | $I_{OUT} = 1\text{ mA}$ to 200 mA | | 0.001 | 0.003 | %/mA |
| V_{DROP} | Dropout voltage ⁽¹⁾ | $I_{OUT} = 100\text{ mA}$, $V_{OUT} = 3.3\text{ V}$ | | 100 | | |
| | | $I_{OUT} = 200\text{ mA}$, $V = 3.3\text{ V}$ $40^\circ\text{C} < T_J < 125^\circ\text{C}$ | | 200 | 350 | mV |
| e_N | Output noise voltage | 10 Hz to 100 kHz $I_{OUT} = 10\text{ mA}$ | | 63 | | $\mu\text{V}_{\text{RMS}}/\text{V}$ |
| SVR | Supply voltage rejection | $f = 120\text{ Hz}$, $I_{OUT} = 10\text{ mA}$ $V_{OUT} = 3.3\text{ V}$ | | 88 | | dB |
| | | $f = 1\text{ kHz}$ $I_{OUT} = 10\text{ mA}$ $V_{OUT} = 3.3\text{ V}$ | | 65 | | |
| | | $f = 10\text{ kHz}$, $I_{OUT} = 10\text{ mA}$ $V_{OUT} = 3.3\text{ V}$ | | 48 | | |
| I_Q | Quiescent current | $V_{OUT} +1\text{ V}$ $V_{IN} 18\text{ V}$ $I_{OUT} = 0\text{ mA}$, $-40^\circ\text{C} < T_J < 125^\circ\text{C}$ | | 60 | 90 | μA |
| | | $V_{IN} = V_{OUT} +1\text{ V}$ $I_{OUT} = 200\text{ mA}$, $-40^\circ\text{C} < T_J < 125^\circ\text{C}$ | | 70 | 100 | |
| | | V_{IN} input current in OFF mode: $V_{EN} = \text{GND}$ $T_J = 25^\circ\text{C}$ | | 0.2 | 1 | |
| I_{SC} | Short-circuit current | $R_L = 0$ | | 330 | | mA |
| | | $R_L = 0$, $V_{IN} = 16\text{ V}$ | | 200 | | |

Electrical characteristics

LDK320

| Symbol | Parameter | Test conditions | Min. | Typ. | Max. | Unit |
|------------|--------------------------|--|------|------|------|------------------|
| V_{EN} | Enable input logic low | $V_{IN} = 2.5 \text{ V to } 18 \text{ V}$ $-40^\circ\text{C} < T_J < 125^\circ\text{C}$ | | | 0.4 | V |
| | Enable input logic high | $V_{IN} = 2.5 \text{ V to } 18 \text{ V}$ $-40^\circ\text{C} < T_J < 125^\circ\text{C}$ | 1.2 | | | |
| I_{EN} | Enable pin input current | $V_{EN} = V_{IN}$ | | 0.1 | 100 | nA |
| T_{SHDN} | Thermal shutdown | | | 160 | | $^\circ\text{C}$ |
| | Hysteresis | | | 20 | | |
| C_{OUT} | Output capacitor | Capacitance (see Section 6: "Typical characteristics") | 1 | | 22 | μF |

Notes:

⁽¹⁾Dropout voltage is the input-to-output voltage difference at which the output voltage is 100 mV below its nominal value.

$T_J = 25^\circ\text{C}$, $V_{IN} = 2.5\text{ V}$, $C_{IN} = C_{OUT} = 1\text{ }\mu\text{F}$, $I_{OUT} = 1\text{ mA}$, $V_{EN} = V_{IN}$, unless otherwise specified.

Table 7: LDK320 electrical characteristics (ADJ version)

| Symbol | Parameter | Test conditions | Min. | Typ. | Max. | Unit |
|------------------|--------------------------------------|---|------|--------|-------|------------------|
| V_{IN} | Operating input voltage | | 2.5 | | 18 | V |
| V_{ADJ} | Adjustable voltage | $T_J = 25^\circ\text{C}$ | | 1.185 | | V |
| | Adjustable voltage accuracy | $T_J = 25^\circ\text{C}$ | -2 | | +2 | % |
| | | $40^\circ\text{C} < T_J < 125^\circ\text{C}$ | -3 | | +3 | |
| | Adjustable voltage, LDK320A | $T_J = 25^\circ\text{C}$ | | 1.2 | | V |
| | Adjustable voltage accuracy, LDK320A | $T_J = 25^\circ\text{C}$ | -0.5 | | +0.5 | % |
| | | $40^\circ\text{C} < T_J < 125^\circ\text{C}$ | -1.5 | | +1.5 | |
| ΔV_{OUT} | Static line regulation | $V_{OUT} + 1\text{ V} \leq V_{IN} \leq 18\text{ V}$ | | 0.001 | 0.05 | %/V |
| ΔV_{OUT} | Static load regulation | $I_{OUT} = 1\text{ mA}$ to 200 mA | | 0.0002 | 0.003 | %/mA |
| V_{DROP} | Dropout voltage ⁽¹⁾ | $I_{OUT} = 100\text{ mA}$ $V_{OUT} = 3.3\text{ V}$ | | 100 | | mV |
| | | $I_{OUT} = 200\text{ mA}$ $V_{OUT} = 3.3\text{ V}$ $40^\circ\text{C} < T_J < 125^\circ\text{C}$ | | 200 | 350 | |
| e_N | Output noise voltage | 10 Hz to 100 kHz $I_{OUT} = 10\text{ mA}$ | | 60 | | μVRMS |
| I_{ADJ} | Adjust pin current | | | | 1 | μA |
| SVR | Supply voltage rejection | $f = 120\text{ Hz}$ $I_{OUT} = 10\text{ mA}$, $V_{OUT} = V_{ADJ}$ | | 83 | | dB |
| | | $f = 1\text{ kHz}$ $I_{OUT} = 10\text{ mA}$ $V_{OUT} = V_{ADJ}$ | | 73 | | |
| | | $f = 10\text{ kHz}$ $I_{OUT} = 10\text{ mA}$ $V_{OUT} = V_{ADJ}$ | | 58 | | |
| I_Q | Quiescent current | $V_{OUT} + 1\text{ V} \leq V_{IN} \leq 18\text{ V}$ $I_{OUT} = 0\text{ mA}$ $-40^\circ\text{C} < T_J < 125^\circ\text{C}$ | | 50 | 90 | μA |
| | | $V_{IN} = V_{OUT} + 1\text{ V}$ $I_{OUT} = 200\text{ mA}$ $-40^\circ\text{C} < T_J < 125^\circ\text{C}$ | | 60 | 100 | |
| | | V_{IN} input current in OFF mode: $V_{EN} = \text{GND}$ $T_J = 25^\circ\text{C}$ | | 0.2 | 1 | |

Electrical characteristics

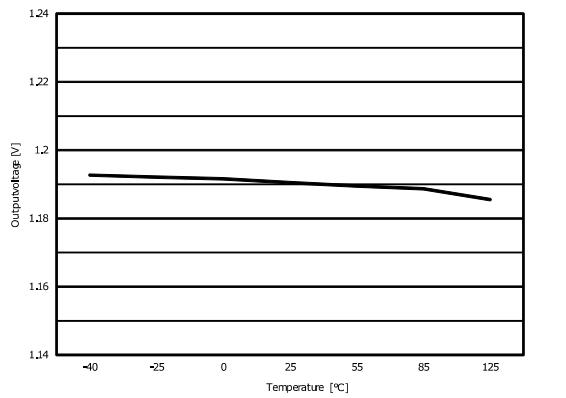
LDK320

| Symbol | Parameter | Test conditions | Min. | Typ. | Max. | Unit |
|-------------------|--------------------------|---|------|------|------|------|
| I _{SC} | Short-circuit current | R _L = 0 | | 330 | | mA |
| | | R _L = 0, V _{IN} = 16 V | | 200 | | |
| V _{EN} | Enable input logic low | V _{IN} = 2.5 V to 18 V -40 °C < T _J < 125 °C | | | 0.4 | V |
| | Enable input logic high | V _{IN} = 2.5 V to 18 V -40 °C < T _J < 125 °C | 1.2 | | | |
| I _{EN} | Enable pin input current | V _{EN} = V _{IN} | | 0.1 | 100 | nA |
| T _{SHDN} | Thermal shutdown | | | 160 | | °C |
| | Hysteresis | | | 20 | | |
| C _{OUT} | Output capacitor | Capacitance (see <i>Section 6: "Typical characteristics"</i>) | 1 | | 22 | μF |

6 Typical characteristics

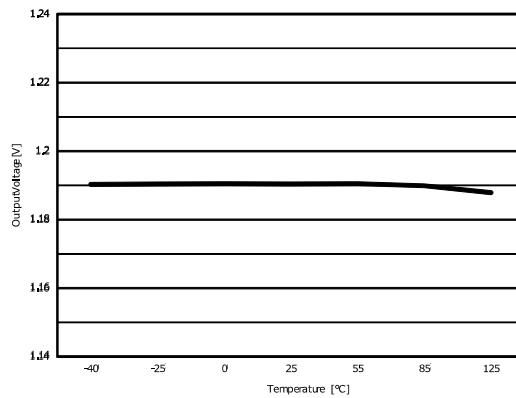
Unless otherwise specified: $T_J = 25^\circ\text{C}$, $V_{IN} = V_{OUT(NOM)} + 1\text{ V}$, $C_{IN} = C_{OUT} = 1\text{ }\mu\text{F}$.

Figure 5: Output voltage vs temperature
($V_{IN} = 2.5\text{ V}$, $V_{OUT} = V_{ADJ}$, $I_{OUT} = 1\text{ mA}$)



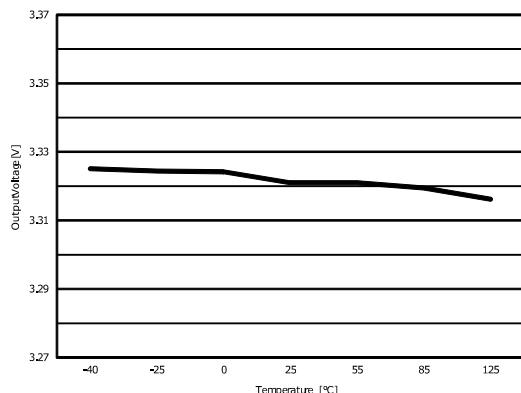
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Figure 6: Output voltage vs temperature
($V_{IN} = 2.5\text{ V}$, $V_{OUT} = V_{ADJ}$, $I_{OUT} = 200\text{ mA}$)



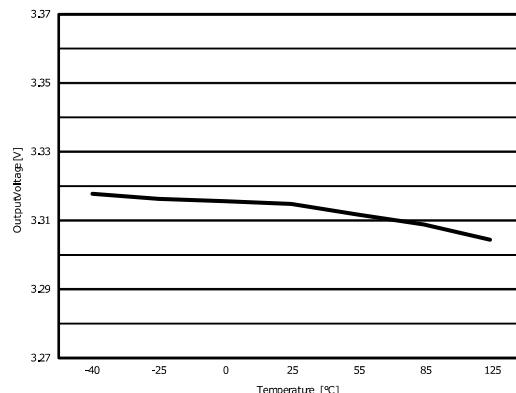
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Figure 7: Output voltage vs temperature
($V_{IN} = 4.3\text{ V}$, $V_{OUT} = 3.3\text{ V}$, $I_{OUT} = 1\text{ mA}$)



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Figure 8: Output voltage vs temperature
($V_{IN} = 4.3\text{ V}$, $V_{OUT} = 3.3\text{ V}$, $I_{OUT} = 200\text{ mA}$)



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Typical characteristics

LDK320

Figure 9: Line regulation vs temperature
 $(V_{IN} = 4.3 \text{ to } 18 \text{ V}, V_{OUT} = 3.3 \text{ V}, I_{OUT} = 1 \text{ mA})$

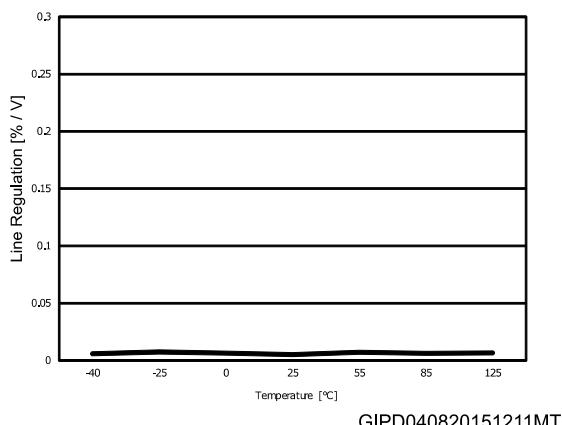


Figure 10: Line regulation vs temperature
 $(V_{IN} = 2.5 \text{ to } 18 \text{ V}, V_{OUT} = V_{ADJ}, I_{OUT} = 1 \text{ mA})$

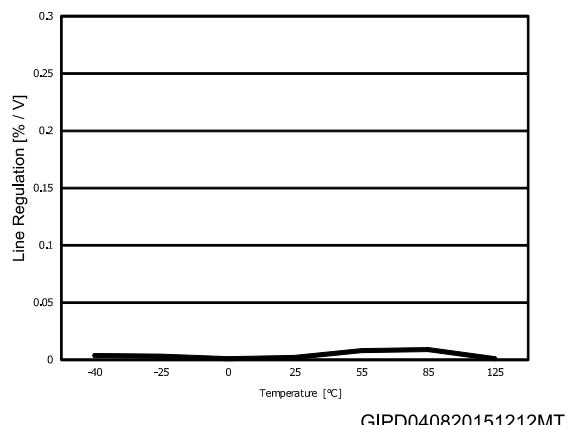


Figure 11: Load regulation vs temperature
 $(V_{IN} = 4.3 \text{ V}, V_{OUT} = 3.3 \text{ V}, I_{OUT} = 1 \text{ to } 200 \text{ mA})$

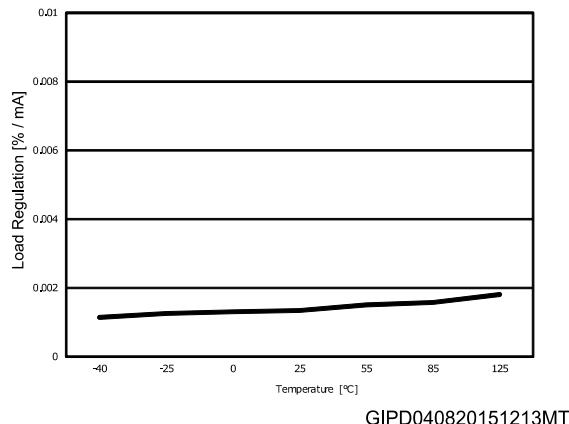


Figure 12: Load regulation vs temperature
 $(V_{IN} = 2.5 \text{ V}, V_{OUT} = V_{ADJ}, I_{OUT} = 1 \text{ to } 200 \text{ mA})$

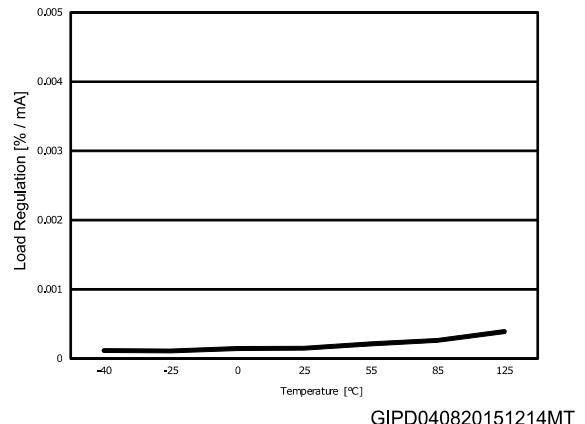


Figure 13: Enable thresholds vs temperature
 $(I_{OUT} = 1 \text{ mA})$

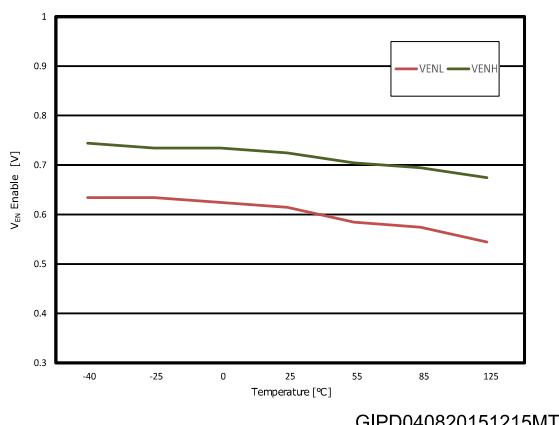
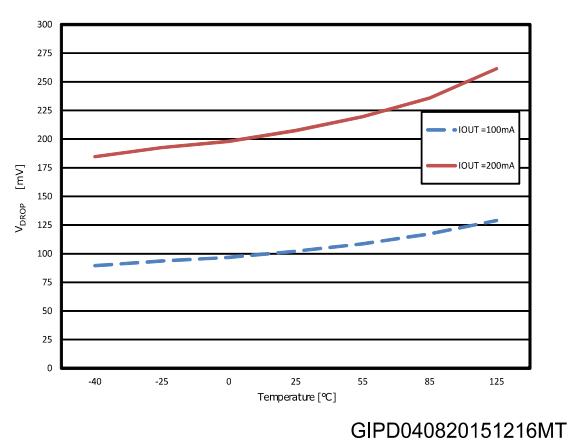
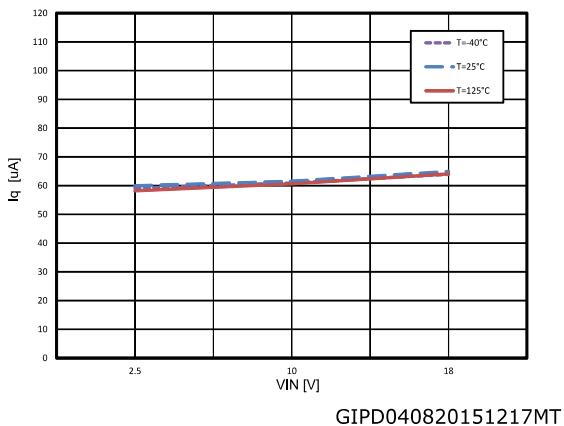


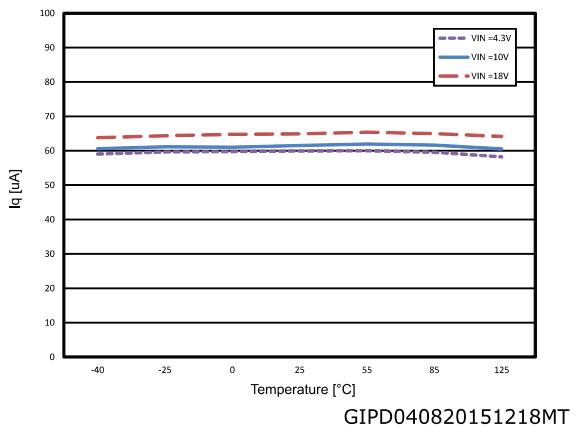
Figure 14: Dropout voltage vs temperature



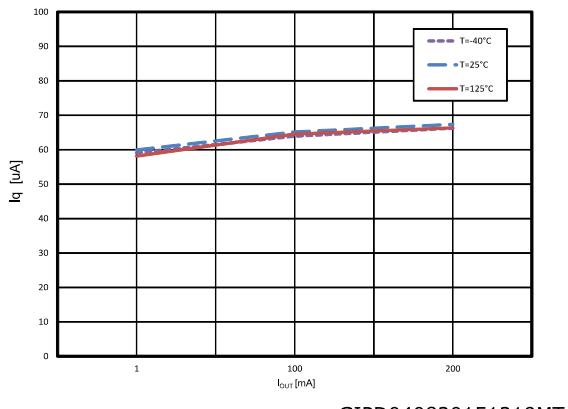
**Figure 15: Quiescent current vs input voltage
($I_{OUT} = 1 \text{ mA}$)**



**Figure 16: Quiescent current vs temperature
($I_{OUT} = 1 \text{ mA}$)**



**Figure 17: Quiescent current vs output current
($V_{IN} = 4.3 \text{ V}$)**



**Figure 18: Quiescent current vs temperature
($I_{OUT} = 200 \text{ mA}$)**

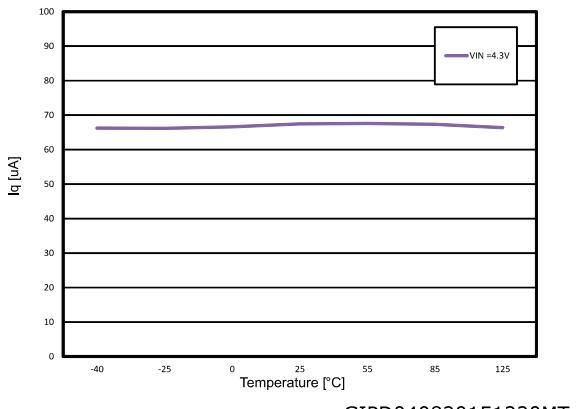
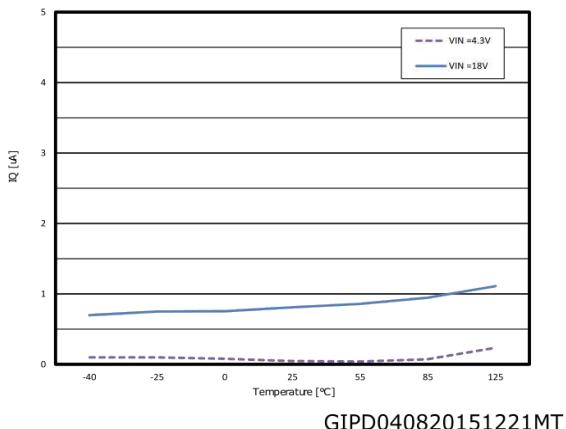


Figure 19: Off-state current vs temperature



**Figure 20: Short-circuit current vs temperature
($V_{IN} = 4.3 \text{ V}$)**

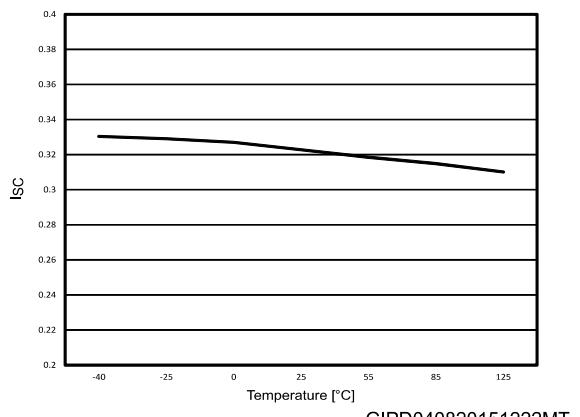


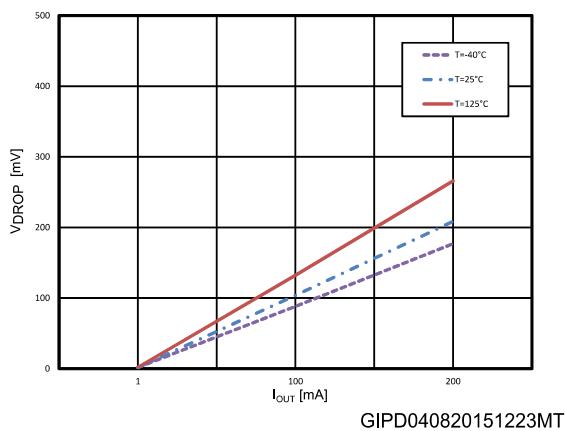
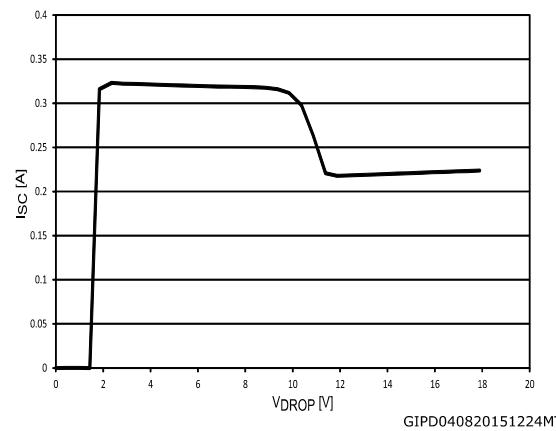
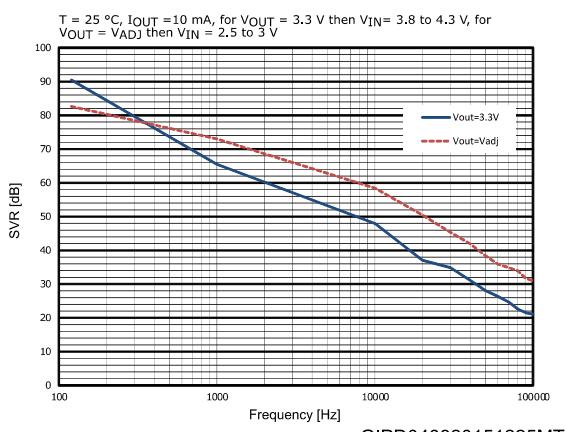
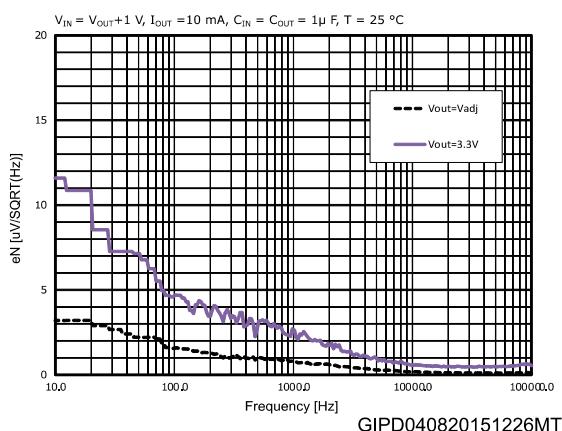
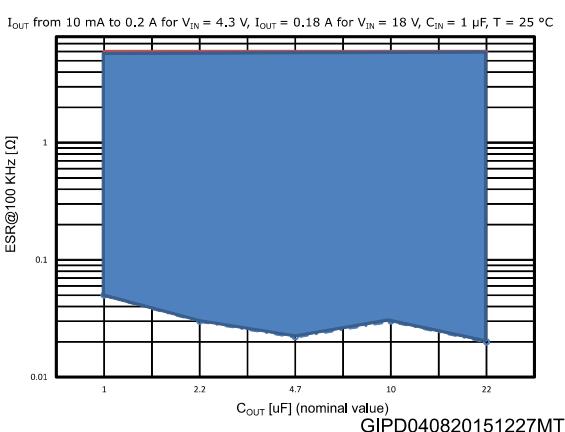
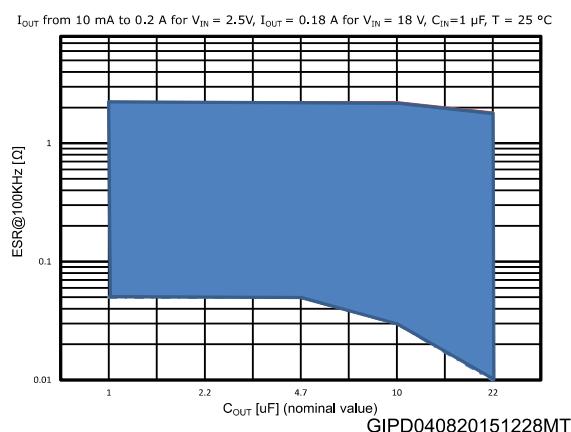
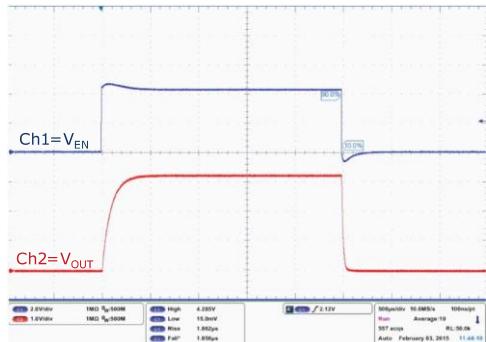
Figure 21: Dropout voltage vs I_{OUT}**Figure 22: Short-circuit current vs drop voltage****Figure 23: SVR vs frequency****Figure 24: Output noise spectral density****Figure 25: Stability plan (V_{OUT} = 3.3 V)****Figure 26: Stability plan (V_{OUT} = V_{ADJ})**

Figure 27: Startup with enable ($V_{OUT} = 3.3$ V)

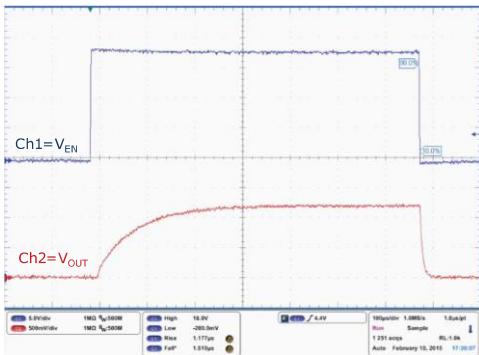
$V_{IN} = 4.3$ V, V_{EN} = from 0 to V_{IN} , $I_{OUT} = 200$ mA, $C_{IN} = C_{OUT} = 1 \mu\text{F}$ $T_{rise} = T_{fall} = 1 \mu\text{s}$



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Figure 28: Startup with enable ($V_{OUT} = V_{ADJ}$)

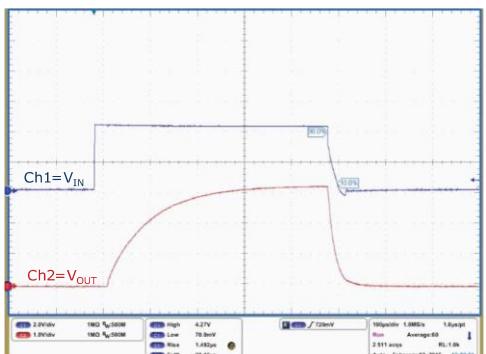
$V_{IN} = 18$ V, V_{EN} = from 0 to V_{IN} , $I_{OUT} = 200$ mA, $C_{IN} = C_{OUT} = 1 \mu\text{F}$ $T_{rise} = T_{fall} = 1 \mu\text{s}$



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Figure 29: Turn-on time ($V_{OUT} = 3.3$ V)

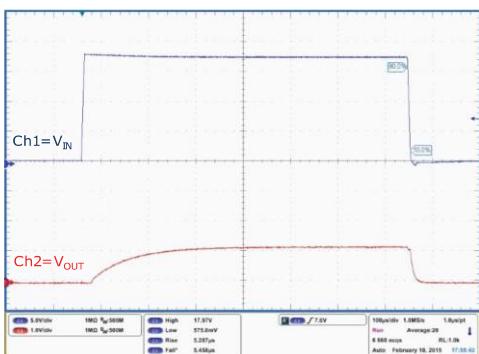
$V_{IN} = V_{EN}$ = from 0 to 4.3 V, $I_{OUT} = 200$ mA, $C_{IN} = C_{OUT} = 1 \mu\text{F}$, $T_{rise} = 1 \mu\text{s}$



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Figure 30: Turn-on time ($V_{OUT} = V_{ADJ}$)

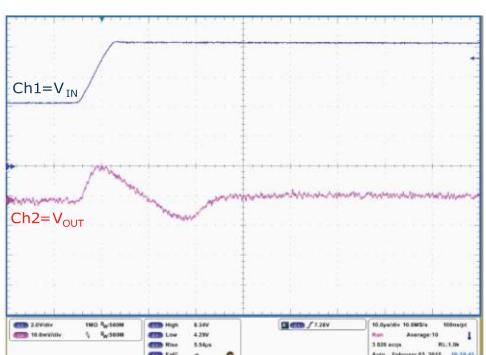
$V_{IN} = V_{EN}$ = from 0 to 18 V, $I_{OUT} = 200$ mA $V_{OUT} = V_{REF}$, $C_{IN} = C_{OUT} = 1 \mu\text{F}$ $T_{rise} = 5 \mu\text{s}$



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Figure 31: Line transient ($V_{OUT} = 3.3$ V, rise)

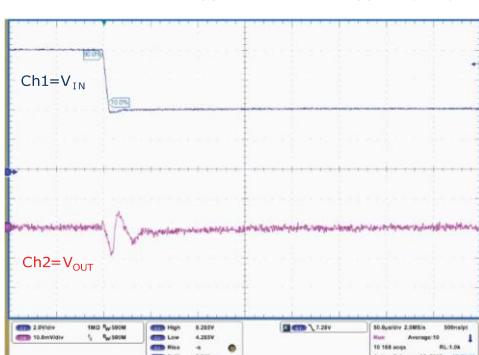
$V_{IN} = V_{EN}$ = from 4.3 to 8.3 V, $I_{OUT} = 10$ mA, $C_{IN} = C_{OUT} = 1 \mu\text{F}$ $T_{rise} = 5 \mu\text{s}$



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Figure 32: Line transient ($V_{OUT} = 3.3$ V, fall)

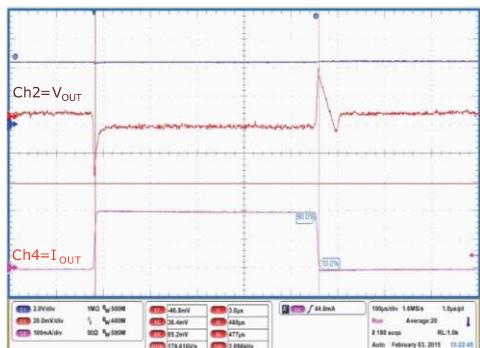
$V_{IN} = V_{EN}$ = from 4.3 to 8.3 V, $I_{OUT} = 10$ mA, $C_{IN} = C_{OUT} = 1 \mu\text{F}$ $T_{fall} = 5 \mu\text{s}$



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Figure 33: Load transient ($V_{OUT} = 3.3$ V, rise)

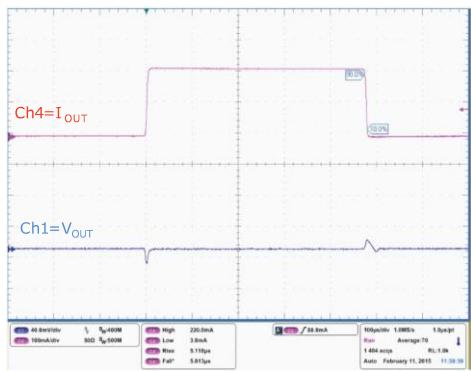
$V_{IN} = V_{EN} = 4.3$ V, I_{OUT} = from 1 to 200 mA, $C_{IN} = C_{OUT} = 1 \mu F$ $T_{rise} = 5 \mu s$



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Figure 34: Load transient ($V_{OUT} = V_{ADJ}$, fall)

$V_{IN} = V_{EN} = 2.5$ V, I_{OUT} = from 1 to 200 mA, $C_{IN} = C_{OUT} = 1 \mu F$ $T_{rise} - T_{fall} = 5 \mu s$



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7 Package information

In order to meet environmental requirements, ST offers these devices in different grades of ECOPACK® packages, depending on their level of environmental compliance. ECOPACK® specifications, grade definitions and product status are available at: www.st.com.
ECOPACK® is an ST trademark.

7.1 SOT23-5L package information

Figure 35: SOT23-5L package outline

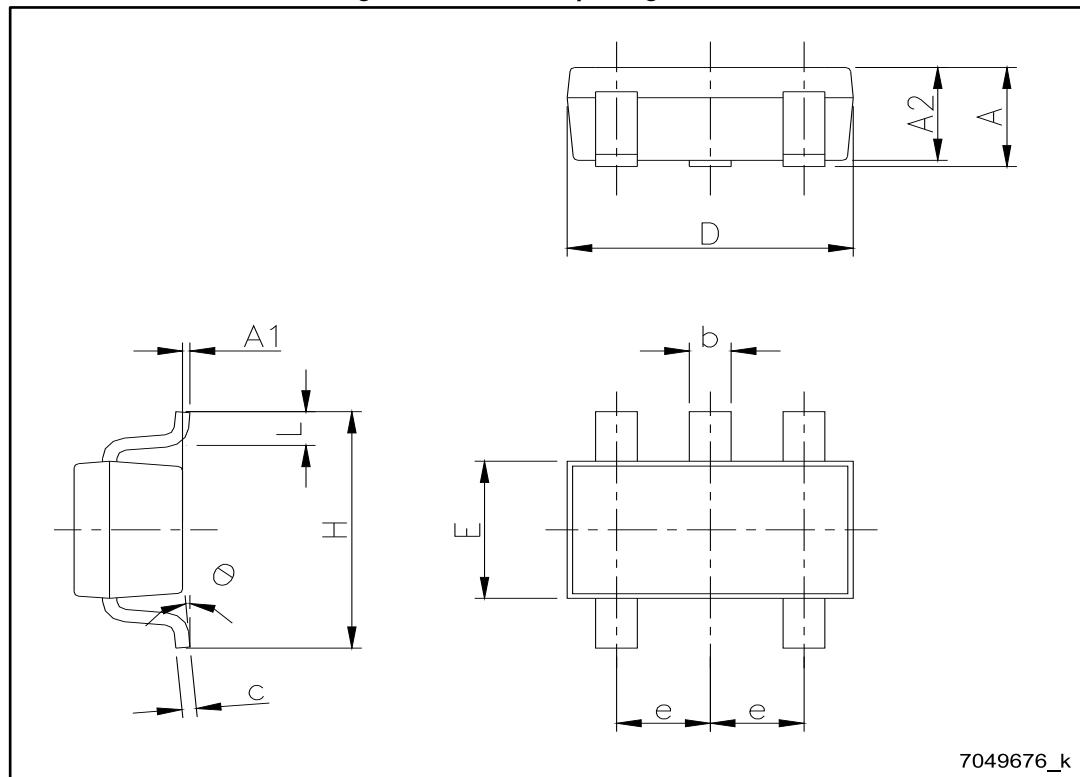
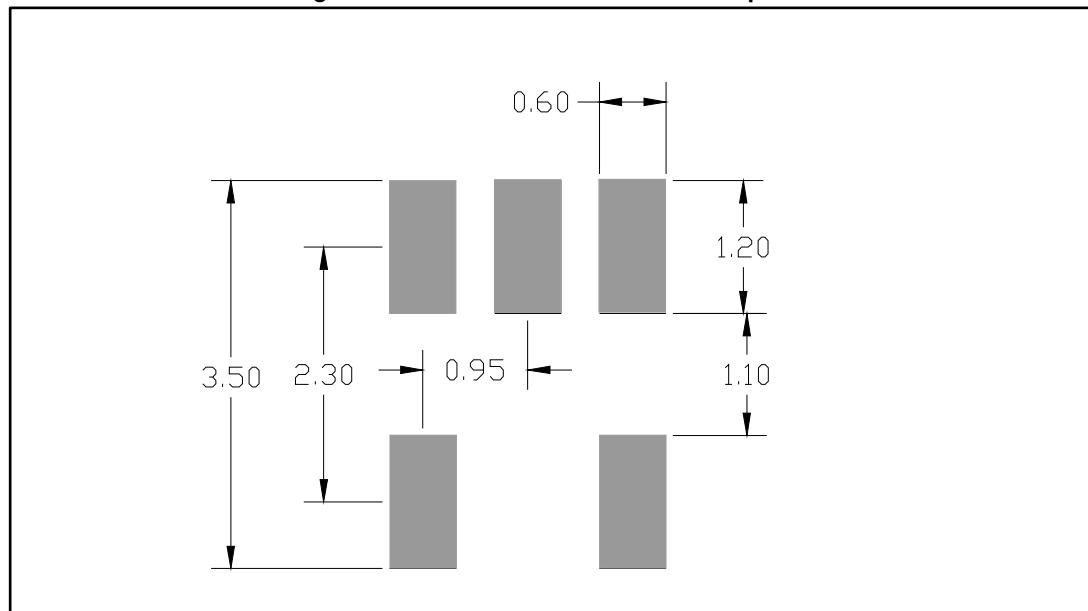


Table 8: SOT23-5L package mechanical data

| Dim. | mm | | |
|------|------|------|------|
| | Min. | Typ. | Max. |
| A | 0.90 | | 1.45 |
| A1 | 0 | | 0.15 |
| A2 | 0.90 | | 1.30 |
| b | 0.30 | | 0.50 |
| c | 0.09 | | 0.20 |
| D | | 2.95 | |
| E | | 1.60 | |
| e | | 0.95 | |
| H | | 2.80 | |
| L | 0.30 | | 0.60 |
| θ | 0° | | 8° |

Figure 36: SOT23-5L recommended footprint



Dimensions are in mm

7.2 SOT23-5L packing information

Figure 37: SOT23-5L tape and reel outline

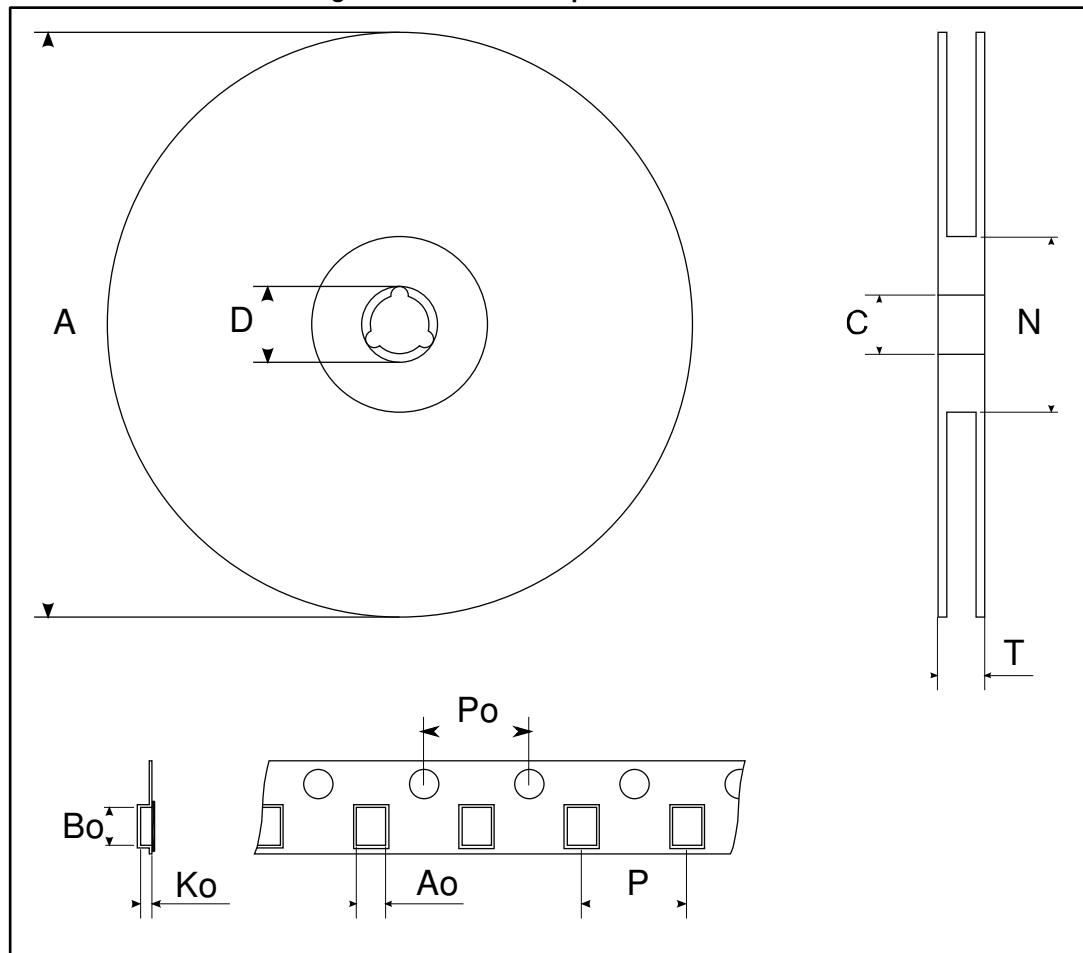


Table 9: SOT23-5L tape and reel mechanical data

| Dim. | mm | | |
|------|------|------|------|
| | Min. | Typ. | Max. |
| A | | | 180 |
| C | 12.8 | 13.0 | 13.2 |
| D | 20.2 | | |
| N | 60 | | |
| T | | | 14.4 |
| Ao | 3.13 | 3.23 | 3.33 |
| Bo | 3.07 | 3.17 | 3.27 |
| Ko | 1.27 | 1.37 | 1.47 |
| Po | 3.9 | 4.0 | 4.1 |
| P | 3.9 | 4.0 | 4.1 |

7.3 SOT-89 package information

Figure 38: SOT-89 package outline

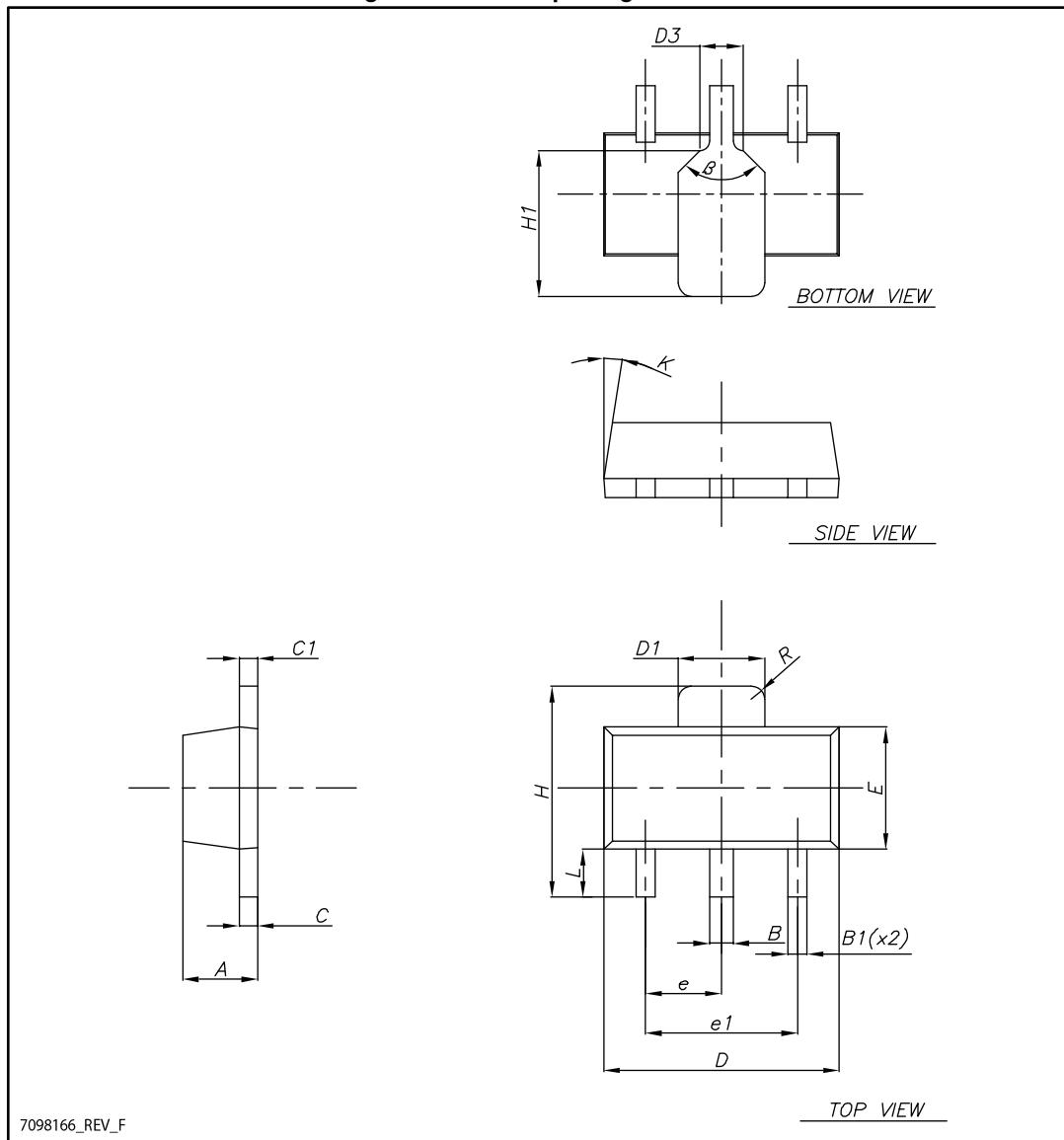
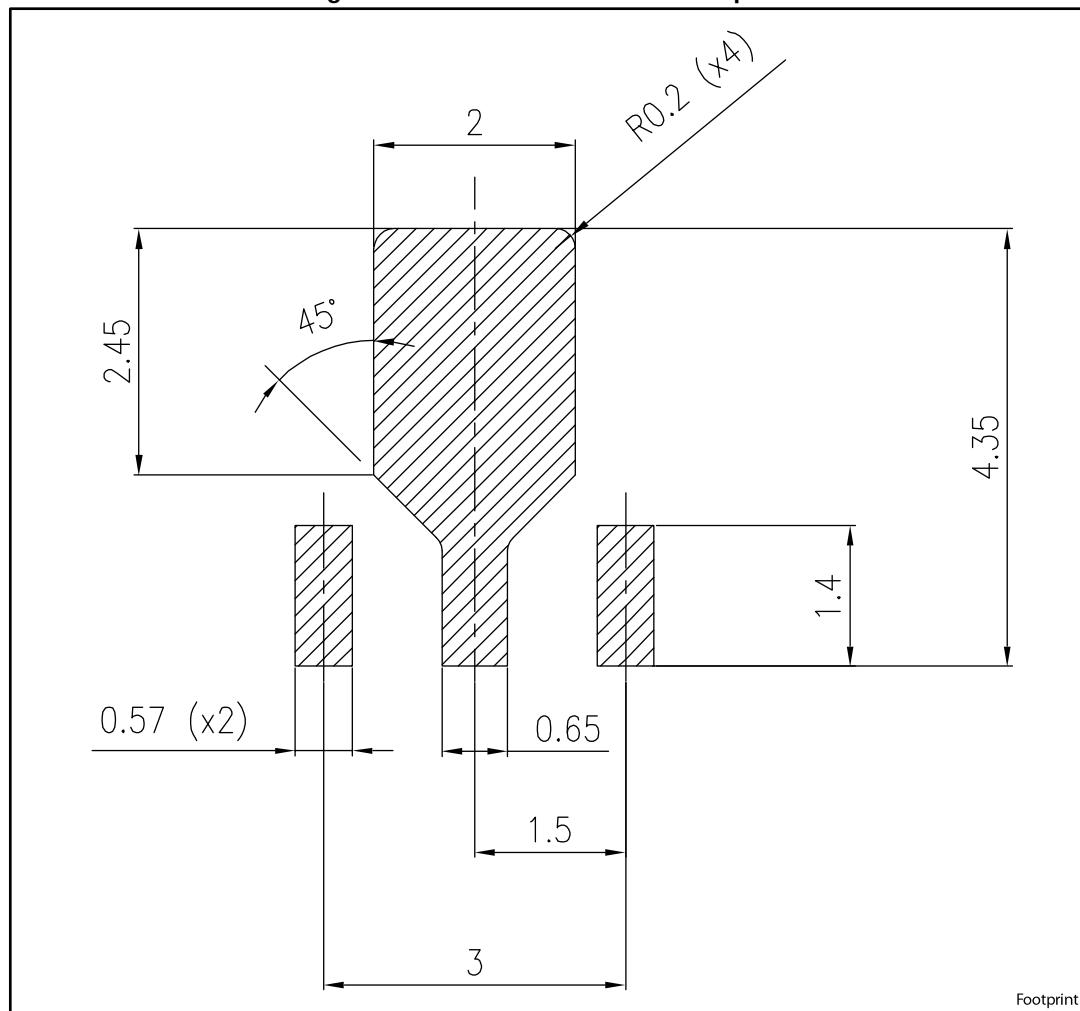


Table 10: SOT-89 mechanical data

| Dim. | mm | | |
|------|------|------|------|
| | Min. | Typ. | Max. |
| A | 1.40 | | 1.60 |
| B | 0.44 | | 0.56 |
| B1 | 0.36 | | 0.48 |
| C | 0.35 | | 0.44 |
| C1 | 0.35 | | 0.44 |
| D | 4.40 | | 4.60 |
| D1 | 1.62 | | 1.83 |
| D3 | | 0.90 | |
| E | 2.29 | | 2.60 |
| e | 1.42 | | 1.57 |
| e1 | 2.92 | | 3.07 |
| H | 3.94 | | 4.25 |
| H1 | 2.70 | | 3.10 |
| K | 1° | | 8° |
| L | 0.89 | | 120 |
| R | | 0.25 | |
| β | | 90° | |

Figure 39: SOT-89 recommended footprint



7.4 SOT-89 packing information

Figure 40: SOT-89 carrier tape outline

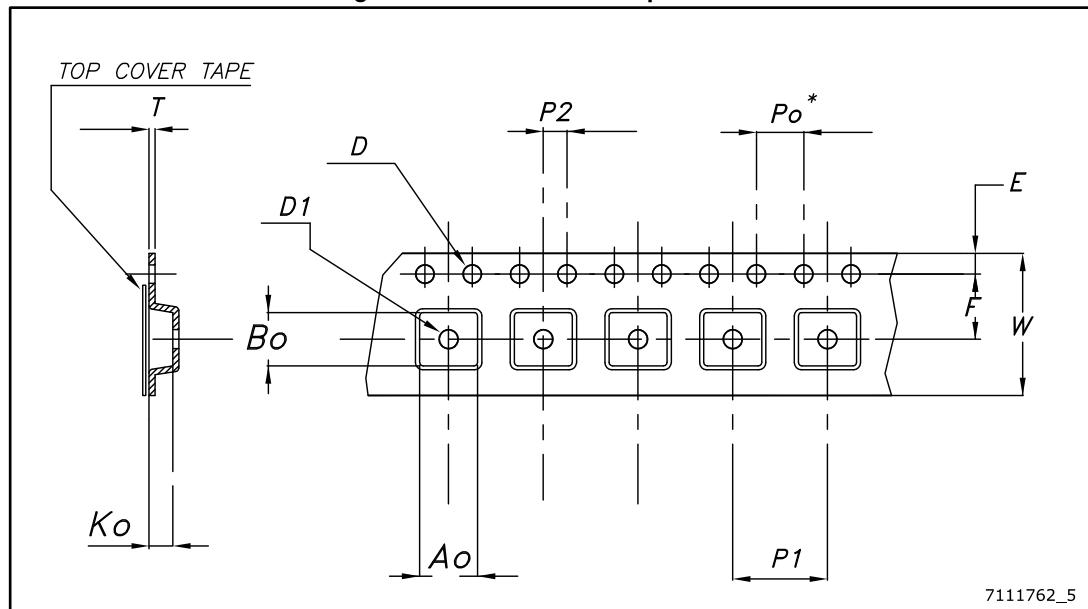


Table 11: SOT-89 carrier tape mechanical data

| Dim. | mm | |
|------|------------------|------------|
| | Value | Tolerance |
| Ao | 4.91 | ± 0.10 |
| Bo | 4.52 | ± 0.10 |
| Ko | 1.90 | ± 0.10 |
| F | 5.50 | ± 0.10 |
| E | 1.75 | ± 0.10 |
| W | 12 | ± 0.30 |
| P2 | 2 | ± 0.10 |
| Po | 4 | ± 0.10 |
| P1 | 8 | ± 0.10 |
| T | 0.30 | ± 0.10 |
| D | $\emptyset 1.55$ | ± 0.05 |
| D1 | $\emptyset 1.60$ | ± 0.10 |

8 Ordering information

Table 12: Order code

| SOT23-5L | SOT-89 (D configuration) | Accuracy (%) | Output voltage |
|-----------------------------|------------------------------|--------------|----------------|
| LDK320AM-R | | 0.5 | ADJ |
| LDK320M-R | | 2 | |
| LDK320AM12R ⁽¹⁾ | | 0.5 | 1.2 |
| LDK320M12R ⁽¹⁾ | | 2 | |
| LDK320AM15R ⁽¹⁾ | | 0.5 | 1.5 |
| LDK320M15R ⁽¹⁾ | | 2 | |
| LDK320AM18R ⁽¹⁾ | | 0.5 | 1.8 |
| LDK320M18R ⁽¹⁾ | | 2 | |
| LDK320AM25R ⁽¹⁾ | | 0.5 | 2.5 |
| LDK320M25R ⁽¹⁾ | | 2 | |
| LDK320AM30R | LDK320ADU30R ⁽¹⁾ | 0.5 | 3 |
| LDK320M30R | | 2 | |
| LDK320AM33R | LDK320ADU33R | 0.5 | 3.3 |
| LDK320M33R | | 2 | |
| LDK320AM36R ⁽¹⁾ | | 0.5 | 3.6 |
| LDK320M36R ⁽¹⁾ | | 2 | |
| LDK320AM50R | LDK320ADU50R | 0.5 | 5 |
| LDK320M50R | | 2 | |
| LDK320AM120R ⁽¹⁾ | LDK320ADU120R ⁽¹⁾ | 0.5 | 12 |
| LDK320M120R ⁽¹⁾ | | 2 | |

Notes:

(1) Available on request.

9 Revision history

Table 13: Document revision history

| Date | Revision | Changes |
|-------------|----------|--|
| 16-Nov-2015 | 1 | First release. |
| 01-Jun-2016 | 2 | Document status promoted from preliminary data to production data. Updated title and features in cover page. Updated <i>Section 8: "Ordering information"</i> . Minor text changes. |
| 05-Jul-2017 | 3 | Updated <i>Section 8: "Ordering information"</i> . Minor text changes. |