



# SGM2086xQ Automotive 500mA, Low Noise, High PSRR, Low I<sub>Q</sub> and Low Dropout Regulator

## GENERAL DESCRIPTION

The SGM2086xQ is an ultra-low noise, high PSRR and low dropout voltage linear regulator. It capable of supplying 500mA output current. The operating input voltage range is from 2V to 5.5V and output voltage range is from 0.8V to 5.0V.

Other features include 1.2V logic-controlled shutdown mode, under-voltage lockout, current limit and thermal shutdown protection. The SGM2086xQ has automatic discharge function to quickly discharge V<sub>OUT</sub> in the disabled status.

This device is AEC-Q100 qualified (Automotive Electronics Council (AEC) standard Q100 Grade 1) and it is suitable for automotive applications.

The SGM2086xQ is available in a Green SOT-23-5 package. It operates over an operating temperature range of -40°C to +125°C.

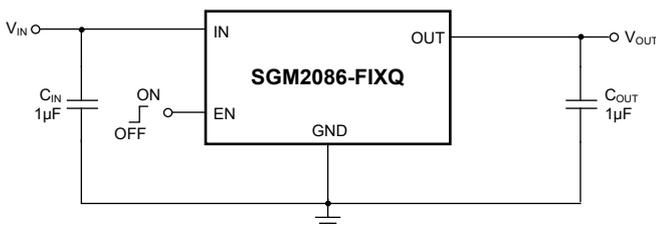
## APPLICATIONS

General Purpose Automotive & Industrial  
Automotive Camera Modules  
Automotive ADAS, Infotainment and Body

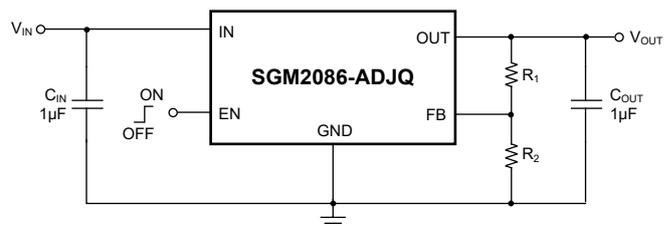
## FEATURES

- AEC-Q100 Qualified for Automotive Applications  
Device Temperature Grade 1  
T<sub>A</sub> = -40°C to +125°C
- Operating Input Voltage Range: 2V to 5.5V
- Enable Pin Accept Voltages Higher than the Supply Voltage and up to 5.5V
- Fixed Output from 1.2V to 4.2V
- Adjustable Output from 0.8V to 5.0V
- 500mA Output Current
- Output Voltage Accuracy: ±1% at +25°C
- Low Quiescent Current: 30µA(TYP)
- Low Dropout: 295mV(TYP) at 500mA
- Power Supply Rejection Ratio:
  - SGM2086-ADJQ:
    - ♦ 72dB (TYP) at 1kHz
    - ♦ 47dB (TYP) at 1MHz
  - SGM2086-1.8Q:
    - ♦ 70dB (TYP) at 1kHz
    - ♦ 61dB (TYP) at 1MHz
- Current Limiting and Thermal Protection
- Low Start-Up Current
- UVLO with Hysteresis
- Supports 1.2V Logic Enable Input for ON/OFF Control
- With Output Automatic Discharge
- Stable with Small Case Size Ceramic Capacitors
- -40°C to +125°C Operating Temperature Range
- Available in a Green SOT-23-5 Package

## TYPICAL APPLICATION



Fixed Voltage Typical Application Circuit



Adjustable Voltage Typical Application Circuit

Figure 1. Typical Application Circuits

# Automotive 500mA, Low Noise, High PSRR, SGM2086xQ Low I<sub>Q</sub> and Low Dropout Regulator

## PACKAGE/ORDERING INFORMATION

MODEL	PACKAGE DESCRIPTION	SPECIFIED TEMPERATURE RANGE	ORDERING NUMBER	PACKAGE MARKING	PACKING OPTION
SGM2086-1.2Q	SOT-23-5	-40°C to +125°C (T <sub>A</sub> )	SGM2086-1.2QN5G/TR	1EQ XXXXX	Tape and Reel, 3000
SGM2086-1.5Q	SOT-23-5	-40°C to +125°C (T <sub>A</sub> )	SGM2086-1.5QN5G/TR	1ER XXXXX	Tape and Reel, 3000
SGM2086-1.8Q	SOT-23-5	-40°C to +125°C (T <sub>A</sub> )	SGM2086-1.8QN5G/TR	19A XXXXX	Tape and Reel, 3000
SGM2086-2.5Q	SOT-23-5	-40°C to +125°C (T <sub>A</sub> )	SGM2086-2.5QN5G/TR	1ES XXXXX	Tape and Reel, 3000
SGM2086-2.8Q	SOT-23-5	-40°C to +125°C (T <sub>A</sub> )	SGM2086-2.8QN5G/TR	1ET XXXXX	Tape and Reel, 3000
SGM2086-2.9Q	SOT-23-5	-40°C to +125°C (T <sub>A</sub> )	SGM2086-2.9QN5G/TR	1EU XXXXX	Tape and Reel, 3000
SGM2086-3.0Q	SOT-23-5	-40°C to +125°C (T <sub>A</sub> )	SGM2086-3.0QN5G/TR	1EV XXXXX	Tape and Reel, 3000
SGM2086-3.3Q	SOT-23-5	-40°C to +125°C (T <sub>A</sub> )	SGM2086-3.3QN5G/TR	19B XXXXX	Tape and Reel, 3000
SGM2086-4.2Q	SOT-23-5	-40°C to +125°C (T <sub>A</sub> )	SGM2086-4.2QN5G/TR	1EW XXXXX	Tape and Reel, 3000
SGM2086-ADJQ	SOT-23-5	-40°C to +125°C (T <sub>A</sub> )	SGM2086-ADJQN5G/TR	199 XXXXX	Tape and Reel, 3000

## MARKING INFORMATION

NOTE: XXXXX = Date Code, Trace Code and Vendor Code.

**XXXXX**



Green (RoHS & HSF): SG Micro Corp defines "Green" to mean Pb-Free (RoHS compatible) and free of halogen substances. If you have additional comments or questions, please contact your SGMICRO representative directly.

**ABSOLUTE MAXIMUM RATINGS**

IN to GND .....	-0.3V to 6V
OUT to GND .....	-0.3V to 6V
EN to GND .....	-0.3V to 6V
Package Thermal Resistance	
SOT-23-5, $\theta_{JA}$ .....	179.7°C/W
SOT-23-5, $\theta_{JB}$ .....	45.6°C/W
SOT-23-5, $\theta_{JC}$ .....	66.5°C/W
Junction Temperature .....	+150°C
Storage Temperature Range .....	-65°C to +150°C
Lead Temperature (Soldering, 10s) .....	+260°C
ESD Susceptibility <sup>(1)(2)</sup>	
HBM .....	±8000V
CDM .....	±1000V

**NOTES:**

1. For human body model (HBM), all pins comply with AEC-Q100-002 specification.
2. For charged device model (CDM), all pins comply with AEC-Q100-011 specification.

**RECOMMENDED OPERATING CONDITIONS**

Operating Input Voltage Range, $V_{IN}$ .....	2V to 5.5V
Adjustable Output Voltage Range .....	0.8V to 5.0V
Enable Voltage Range .....	0V to 5.5V
Input Effective Capacitance, $C_{IN}$ .....	0.5 $\mu$ F (MIN)
Output Effective Capacitance, $C_{OUT}$ .....	0.5 $\mu$ F to 100 $\mu$ F
Operating Ambient Temperature Range .....	-40°C to +125°C
Operating Junction Temperature Range .....	-40°C to +150°C

**OVERSTRESS CAUTION**

Stresses beyond those listed in Absolute Maximum Ratings may cause permanent damage to the device. Exposure to absolute maximum rating conditions for extended periods may affect reliability. Functional operation of the device at any conditions beyond those indicated in the Recommended Operating Conditions section is not implied.

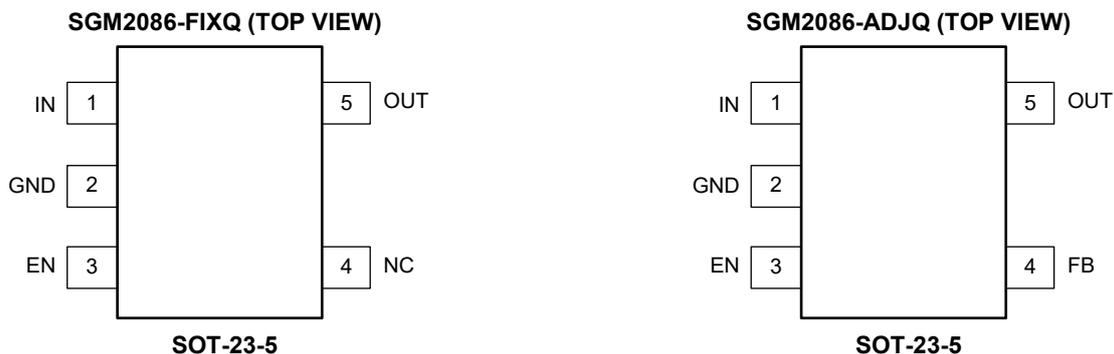
**ESD SENSITIVITY CAUTION**

This integrated circuit can be damaged if ESD protections are not considered carefully. SGMICRO recommends that all integrated circuits be handled with appropriate precautions. Failure to observe proper handling and installation procedures can cause damage. ESD damage can range from subtle performance degradation to complete device failure. Precision integrated circuits may be more susceptible to damage because even small parametric changes could cause the device not to meet the published specifications.

**DISCLAIMER**

SG Micro Corp reserves the right to make any change in circuit design, or specifications without prior notice.

**PIN CONFIGURATIONS**



**PIN DESCRIPTION**

PIN	NAME	FUNCTION
1	IN	Input Supply Voltage Pin. It is recommended to use a 1μF or larger ceramic capacitor from IN pin to ground to get good power supply decoupling. This ceramic capacitor should be placed as close as possible to IN pin.
2	GND	Ground Pin.
3	EN	Enable Pin. Drive EN high to turn on the regulator. Drive EN low to turn off the regulator.
4	FB	Feedback Voltage Input Pin (adjustable voltage version only). Connect this pin to the midpoint of an external resistor divider to adjust the output voltage. Place the resistors as close as possible to this pin.
	NC	No Connection (fixed voltage version).
5	OUT	Regulator Output Pin. It is recommended to use a 1μF ceramic capacitor to ensure stability. This ceramic capacitor should be placed as close as possible to OUT pin.

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## FUNCTIONAL BLOCK DIAGRAMS

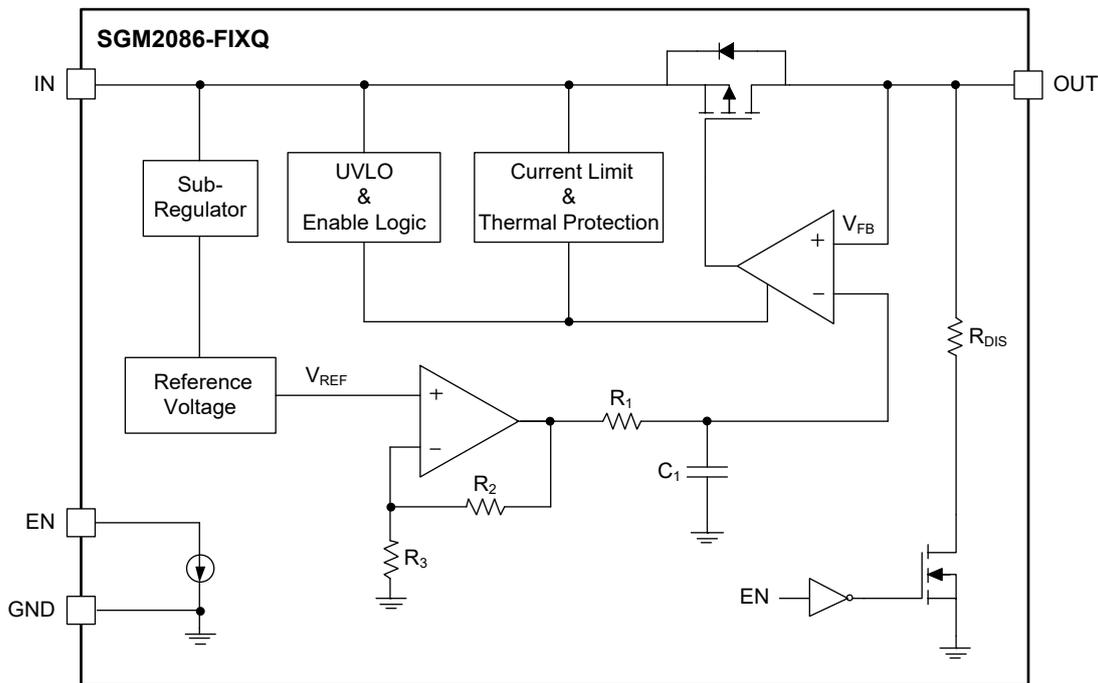


Figure 2. Fixed Output Regulator Block Diagram

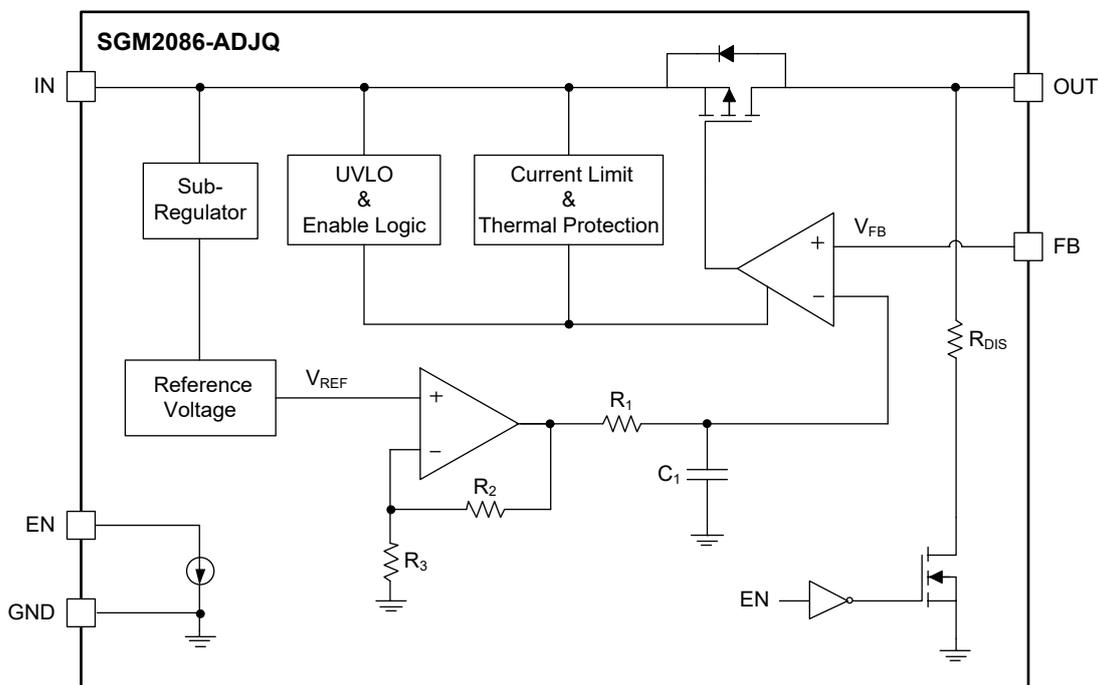


Figure 3. Adjustable Output Regulator Block Diagram

# Automotive 500mA, Low Noise, High PSRR, SGM2086xQ Low I<sub>Q</sub> and Low Dropout Regulator

## ELECTRICAL CHARACTERISTICS

(V<sub>IN</sub> = (V<sub>OUT(NOM)</sub> + 0.5V) or 2V (whichever is greater), V<sub>EN</sub> = V<sub>IN</sub>, I<sub>OUT</sub> = 0.1mA, C<sub>OUT</sub> = 1μF, T<sub>J</sub> = -40°C to +125°C <sup>(1)</sup>, typical values are at T<sub>J</sub> = +25°C, unless otherwise noted.)

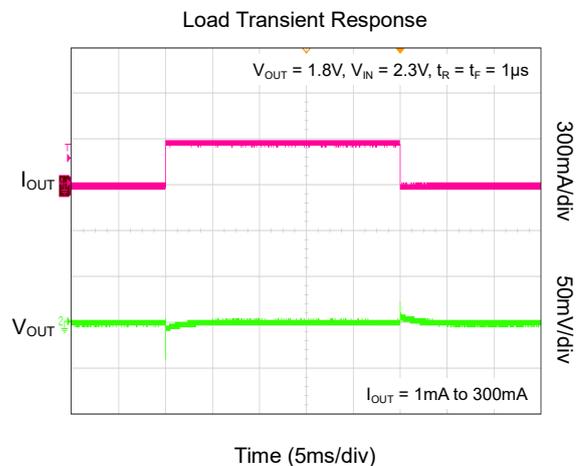
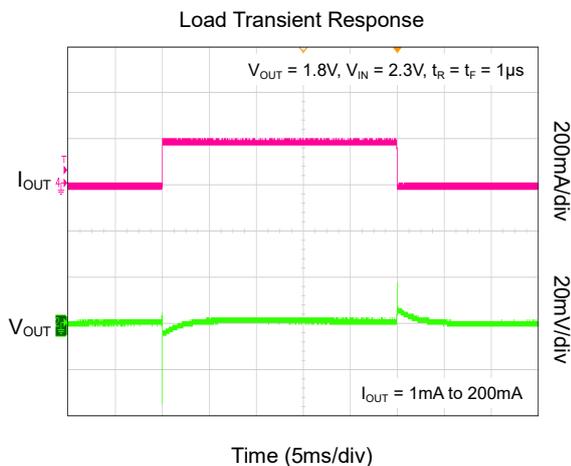
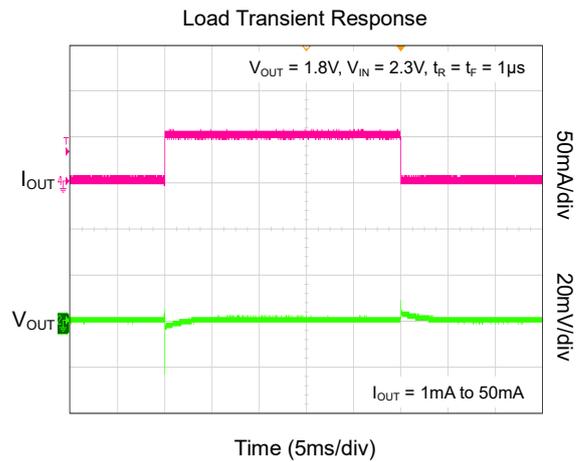
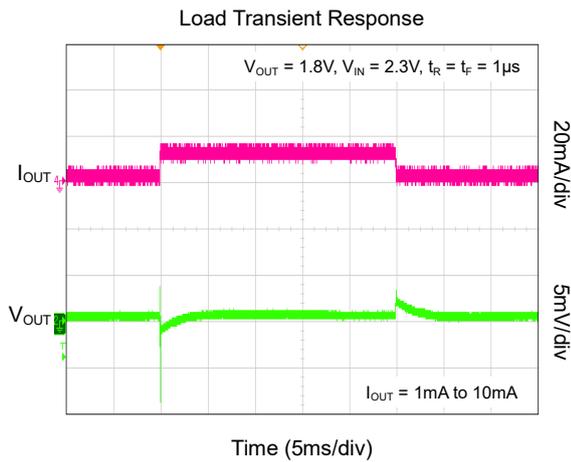
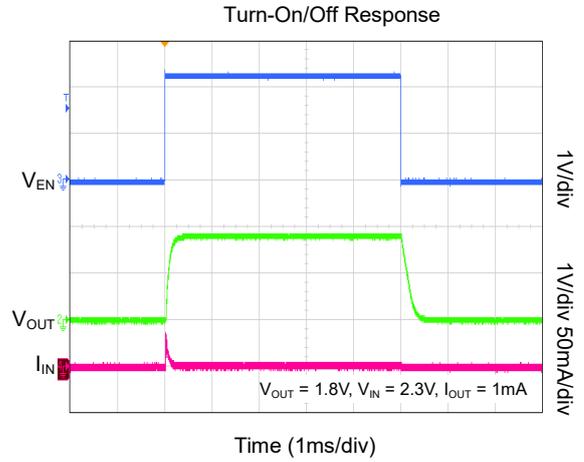
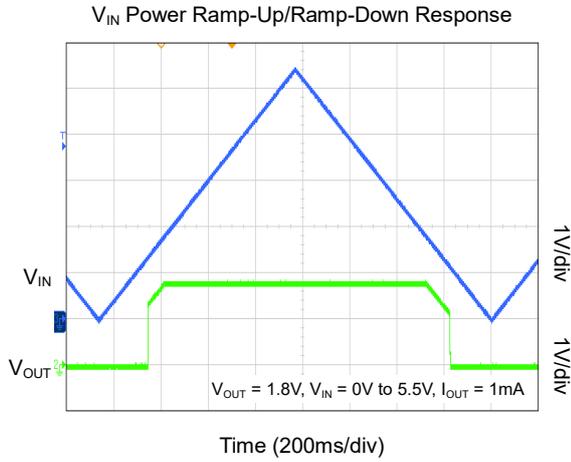
PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS	
Input Voltage Range	V <sub>IN</sub>		2		5.5	V	
Output Voltage Range	V <sub>OUT</sub>		0.8		5.0	V	
Output Voltage Accuracy	V <sub>OUT</sub>	V <sub>IN</sub> = (V <sub>OUT(NOM)</sub> + 1V) or 2.5V (whichever is greater) to 5.5V	T <sub>J</sub> = +25°C	-1	+1	%	
			T <sub>J</sub> = -40°C to +125°C	-2	+1		
Feedback Voltage	V <sub>FB</sub>	V <sub>IN</sub> = (V <sub>OUT(NOM)</sub> + 1V) or 2.5V (whichever is greater) to 5.5V	T <sub>J</sub> = +25°C	0.792	0.8	0.808	V
			T <sub>J</sub> = -40°C to +125°C	0.784	0.8	0.808	
ADJ Pin Input Bias Current	I <sub>FB</sub>	V <sub>FB</sub> = 0.9V		1	100	nA	
Under-Voltage Lockout	V <sub>UVLO</sub>	V <sub>IN</sub> rising		1.38	2	V	
		V <sub>IN</sub> falling		1.17			
Line Regulation	ΔV <sub>OUT_LNR</sub>	V <sub>IN</sub> = (V <sub>OUT(NOM)</sub> + 0.5V) or 2V (whichever is greater) to 5.5V		0.1	2	mV	
Load Regulation	ΔV <sub>OUT_LDR</sub>	V <sub>IN</sub> = (V <sub>OUT(NOM)</sub> + 1V) or 2.5V (whichever is greater), I <sub>OUT</sub> = 0.1mA to 500mA		2.5	10	mV	
Dropout Voltage	V <sub>DROP</sub>	V <sub>OUT</sub> = V <sub>OUT(NOM)</sub> - 50mV, I <sub>OUT</sub> = 500mA	V <sub>OUT(NOM)</sub> = 1.2V		735	980	mV
			V <sub>OUT(NOM)</sub> = 1.8V		485	700	
			V <sub>OUT(NOM)</sub> = 3.3V		325	500	
			V <sub>OUT(NOM)</sub> = 5.0V		295	480	
Output Current Limit	I <sub>LIMIT</sub>	V <sub>IN</sub> = (V <sub>OUT(NOM)</sub> + 1V) or 2.5V (whichever is greater), V <sub>OUT</sub> = 90% × V <sub>OUT(NOM)</sub>	500	820		mA	
Short-Circuit Current Limit	I <sub>SHORT</sub>	V <sub>OUT</sub> = 0V		420		mA	
Ground Pin Current	I <sub>GND</sub>	V <sub>IN</sub> = 5.5V, I <sub>OUT</sub> = 0mA		30	150	μA	
		V <sub>IN</sub> = (V <sub>OUT(NOM)</sub> + 1V) or 2.5V (whichever is greater), I <sub>OUT</sub> = 500mA		3		mA	
Shutdown Current	I <sub>SHDN</sub>	V <sub>EN</sub> = 0V, V <sub>IN</sub> = 5.5V		0.01	1.5	μA	
EN Pin High-Level Input Voltage	V <sub>EN(H)</sub>		0.88		5.5	V	
EN Pin Low-Level Input Voltage	V <sub>EN(L)</sub>		0		0.4	V	
Enable Pin Current	I <sub>EN</sub>	V <sub>IN</sub> = 5.5V, V <sub>EN</sub> = 5.5V		0.1	1	μA	
Turn-On Time	t <sub>ON</sub>	V <sub>IN</sub> = 5.5V, from assertion of V <sub>EN</sub> to V <sub>OUT</sub> = 90% × V <sub>OUT(NOM)</sub>		190		μs	
Power Supply Rejection Ratio	PSRR	SGM2086-ADJQ, V <sub>IN</sub> = 2V, V <sub>OUT</sub> = 0.8V, I <sub>OUT</sub> = 10mA	f = 1kHz		72		dB
			f = 1MHz		47		
		SGM2086-1.8Q, V <sub>IN</sub> = 2.8V, V <sub>OUT</sub> = 1.8V, I <sub>OUT</sub> = 10mA	f = 1kHz		70		dB
			f = 1MHz		61		
Output Voltage Noise	e <sub>n</sub>	f = 10Hz to 100kHz, V <sub>OUT</sub> = 1.8V, I <sub>OUT</sub> = 10mA		31		μV <sub>RMS</sub>	
Output Discharge Resistance	R <sub>DIS</sub>	V <sub>EN</sub> = 0V, V <sub>IN</sub> = 2V		120		Ω	
Thermal Shutdown Temperature	T <sub>SHDN</sub>	T <sub>J</sub> rising		170		°C	
Thermal Shutdown Hysteresis	ΔT <sub>SHDN</sub>	Hysteresis		30		°C	

NOTE:

1. Tested under pulse load conditions, so T<sub>J</sub> ≈ T<sub>A</sub>.

**TYPICAL PERFORMANCE CHARACTERISTICS**

T<sub>J</sub> = -40°C to +125°C, V<sub>IN</sub> = (V<sub>OUT(NOM)</sub> + 0.5V) or 2V (whichever is greater), V<sub>EN</sub> = V<sub>IN</sub>, I<sub>OUT</sub> = 10mA, C<sub>OUT</sub> = 1μF, typical values are at T<sub>J</sub> = +25°C, unless otherwise noted.

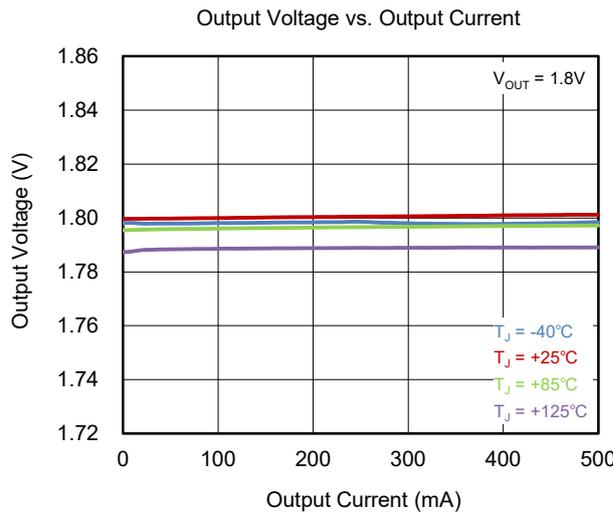
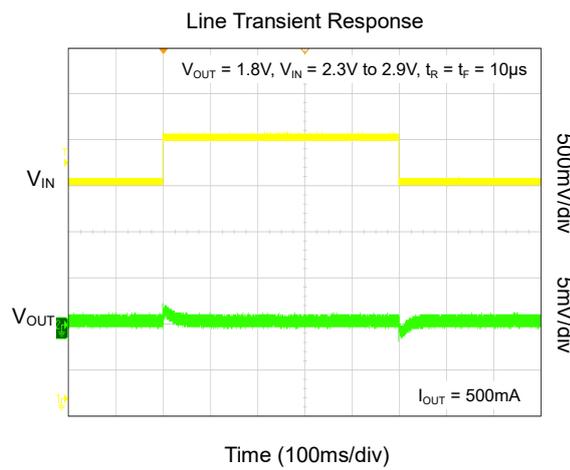
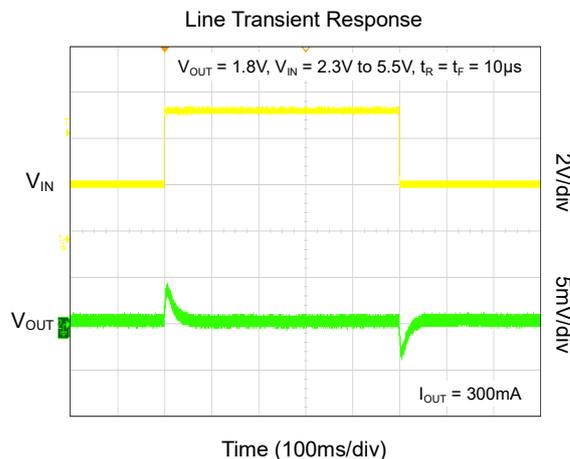
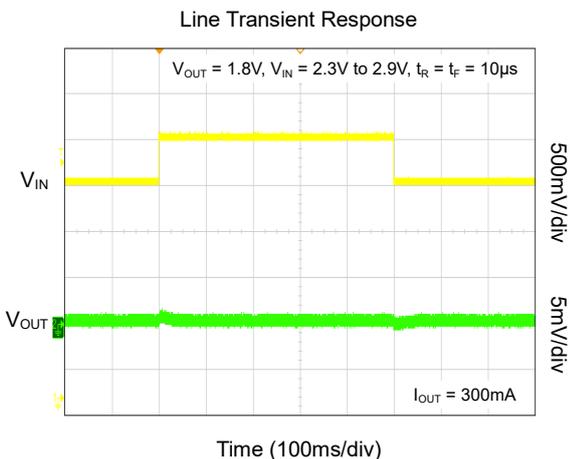
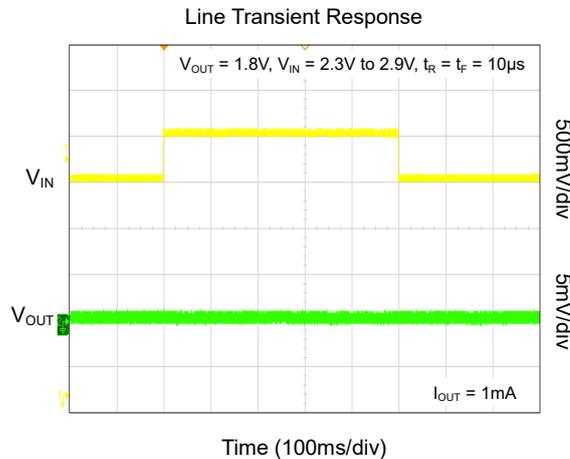
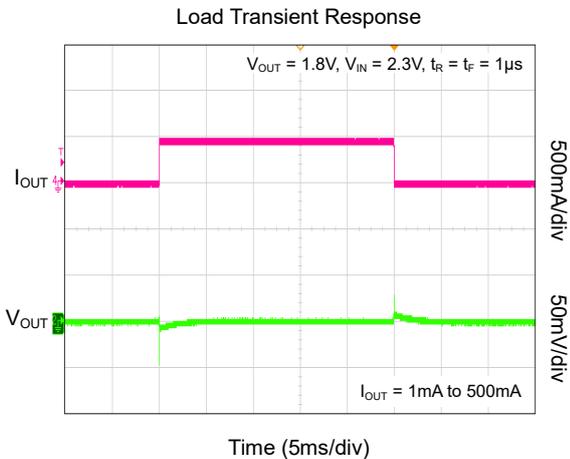


# Automotive 500mA, Low Noise, High PSRR, Low I<sub>Q</sub> and Low Dropout Regulator

## SGM2086xQ

### TYPICAL PERFORMANCE CHARACTERISTICS (continued)

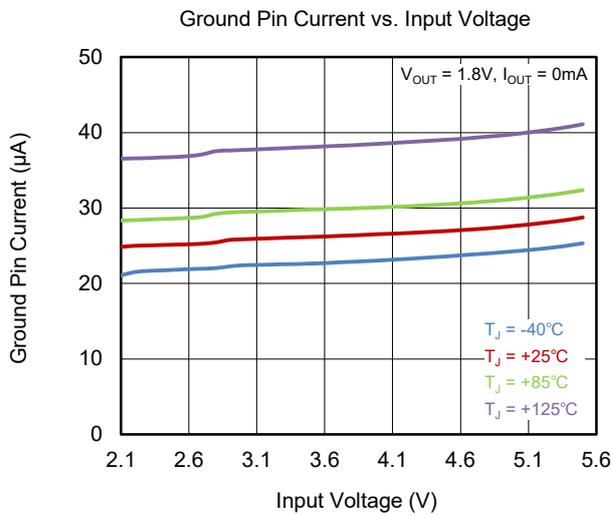
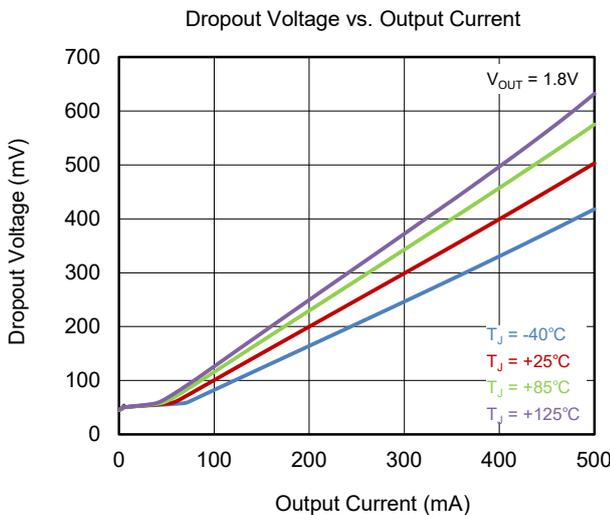
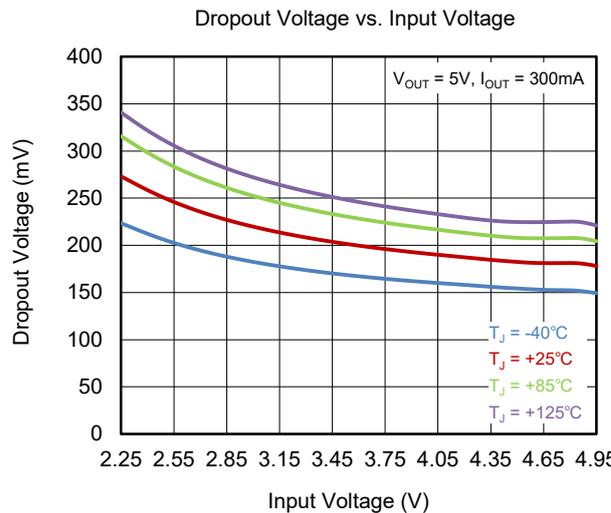
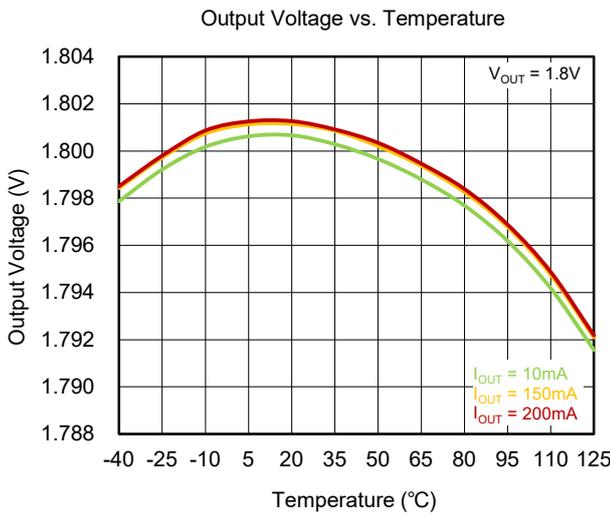
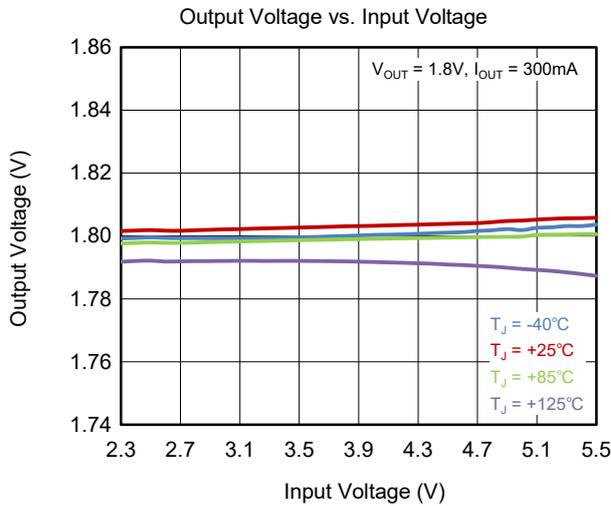
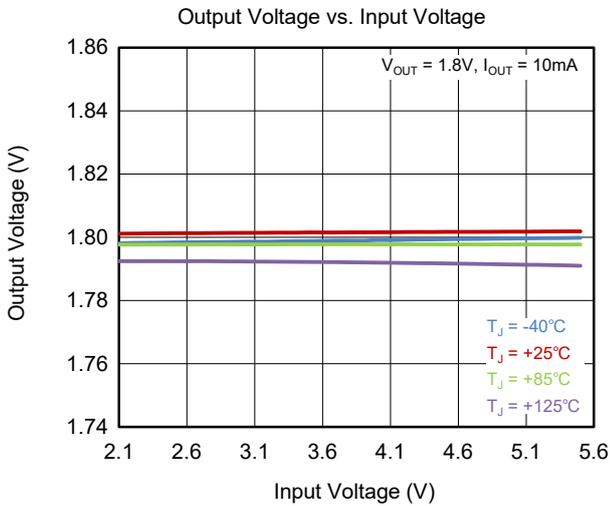
T<sub>J</sub> = -40°C to +125°C, V<sub>IN</sub> = (V<sub>OUT(NOM)</sub> + 0.5V) or 2V (whichever is greater), V<sub>EN</sub> = V<sub>IN</sub>, I<sub>OUT</sub> = 10mA, C<sub>OUT</sub> = 1μF, typical values are at T<sub>J</sub> = +25°C, unless otherwise noted.



# Automotive 500mA, Low Noise, High PSRR, SGM2086xQ Low I<sub>Q</sub> and Low Dropout Regulator

## TYPICAL PERFORMANCE CHARACTERISTICS (continued)

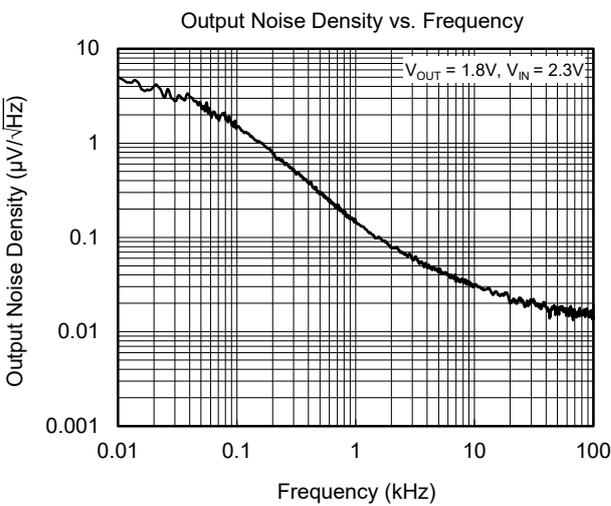
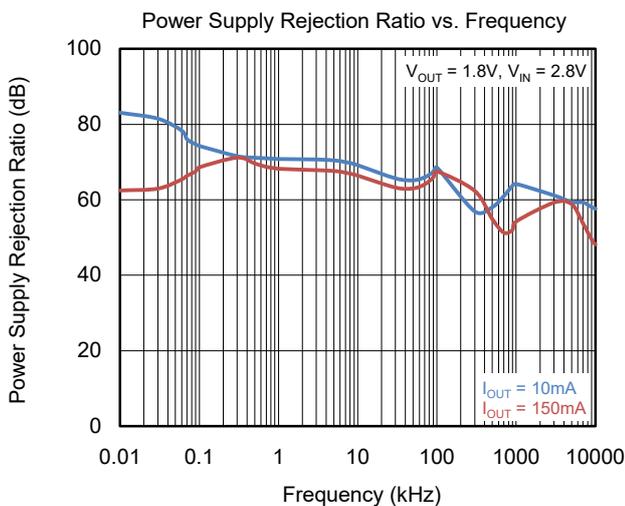
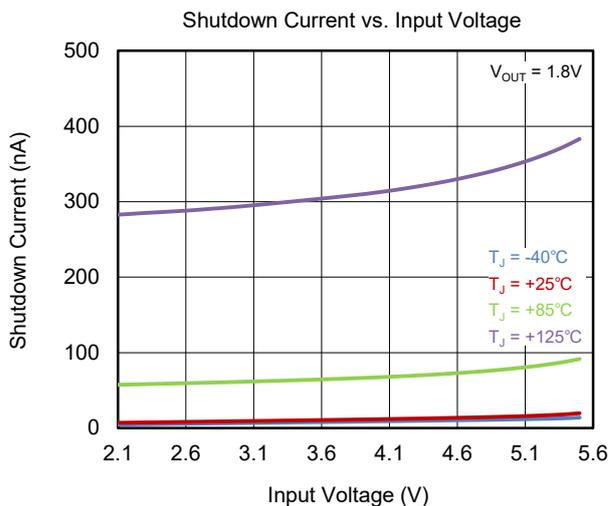
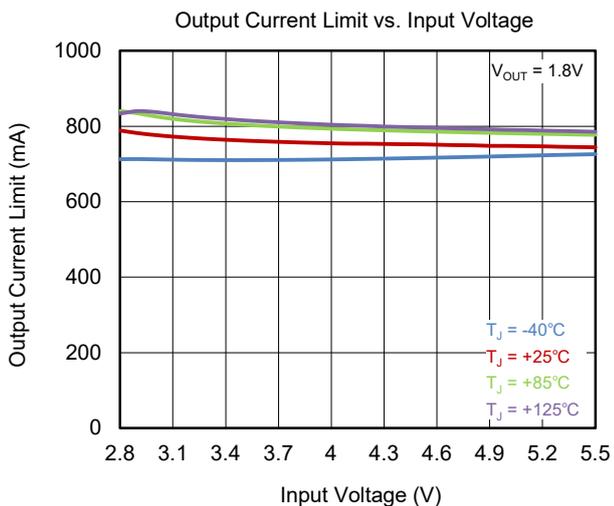
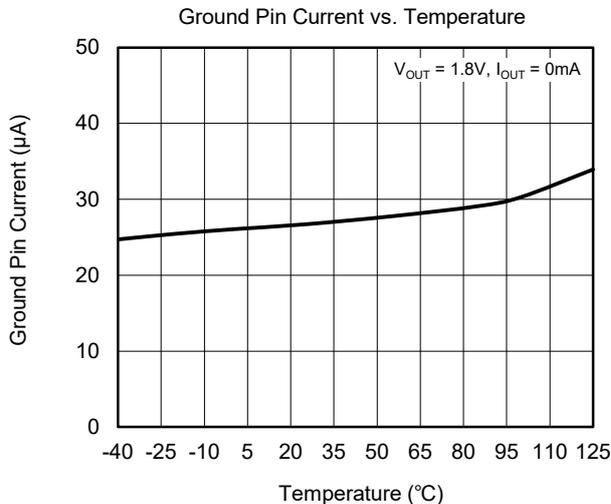
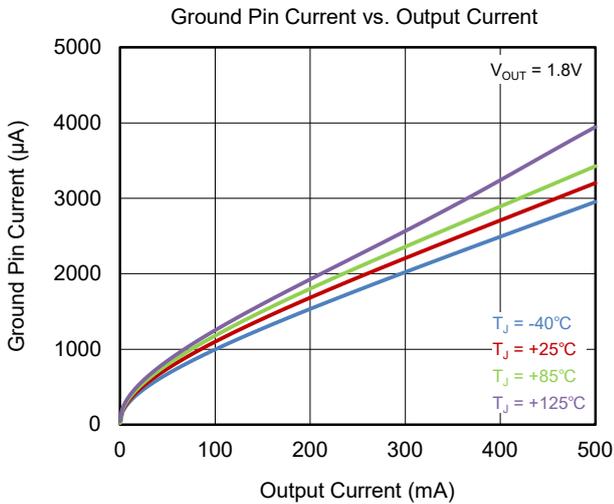
T<sub>J</sub> = -40°C to +125°C, V<sub>IN</sub> = (V<sub>OUT(NOM)</sub> + 0.5V) or 2V (whichever is greater), V<sub>EN</sub> = V<sub>IN</sub>, I<sub>OUT</sub> = 10mA, C<sub>OUT</sub> = 1μF, typical values are at T<sub>J</sub> = +25°C, unless otherwise noted.



# SGM2086xQ Automotive 500mA, Low Noise, High PSRR, Low I<sub>Q</sub> and Low Dropout Regulator

## TYPICAL PERFORMANCE CHARACTERISTICS (continued)

T<sub>J</sub> = -40°C to +125°C, V<sub>IN</sub> = (V<sub>OUT(NOM)</sub> + 0.5V) or 2V (whichever is greater), V<sub>EN</sub> = V<sub>IN</sub>, I<sub>OUT</sub> = 10mA, C<sub>OUT</sub> = 1μF, typical values are at T<sub>J</sub> = +25°C, unless otherwise noted.



**APPLICATION INFORMATION**

The SGM2086xQ is a low noise, high PSRR, low I<sub>Q</sub> and low dropout voltage linear regulator and provides 500mA output current. These features make the device a reliable solution to solve many challenging problems in the generation of clean and accurate power supply. The high performance also makes the SGM2086xQ useful in a variety of applications. The SGM2086xQ provides protection functions for output overload and overheating.

The SGM2086xQ provides an EN pin as an external chip enable control to enable/disable the device. When the regulator is in shutdown state, the shutdown current consumes as low as 0.01µA (TYP).

**Input Capacitor Selection (C<sub>IN</sub>)**

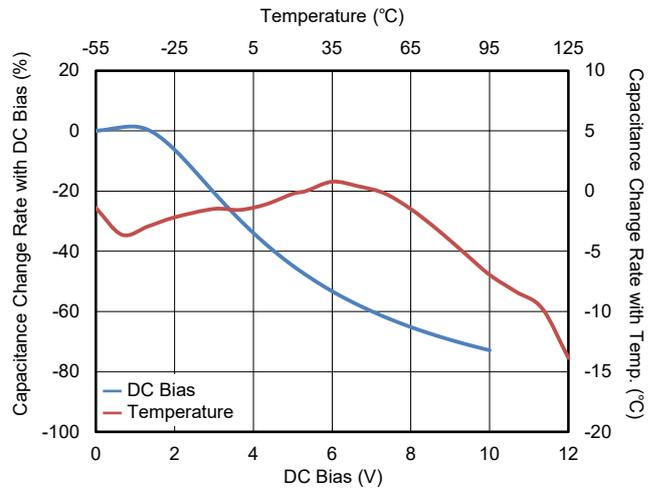
The input decoupling should be placed as close as possible to the IN pin for ensuring the device stability. 1µF or larger X7R or X5R ceramic capacitor is selected to get good dynamic performance.

When V<sub>IN</sub> is required to provide large current instantaneously, a large effective input capacitor is required. Multiple input capacitors can limit the input tracking inductance. Adding more input capacitors is available to restrict the ringing and to keep it below the device absolute maximum ratings. For C<sub>OUT</sub> with larger capacitance, it is recommended to choose the larger capacitance C<sub>IN</sub>.

**Output Capacitor Selection (C<sub>OUT</sub>)**

One or more output capacitors are required to maintain the stability of the LDO, and the output capacitors should be placed as close as possible to the OUT pin. In addition, in order to obtain the best transient performance, it is recommended to use X7R and X5R ceramic capacitors as output capacitors. Ceramic capacitors have low equivalent series resistance (ESR), excellent temperature and DC bias characteristics. However, it cannot be ignored that the effective capacitance of ceramic capacitors is affected by temperature, DC bias and package size.

For example, Figure 3 shows the capacitance and DC bias and temperature characteristics of 0805, 10V, 10µF±10%, X7R capacitor. Therefore, it is necessary to evaluate whether the effective capacitance of the output capacitor can meet the stability requirements of the LDO in practical applications. In general, a capacitor in higher voltage rating and a larger package exhibits better stability, and the effective capacitance can be obtained from the manufacturer datasheet.



**Figure 4. Capacitance vs. DC Bias and Temperature Characteristics**

The SGM2086xQ requires a minimum effective capacitance of 0.5µF for C<sub>OUT</sub> to ensure stability. Additionally, C<sub>OUT</sub> with larger capacitance and lower ESR will help increase the high frequency PSRR and improve the load transient response.

**Adjustable Regulator**

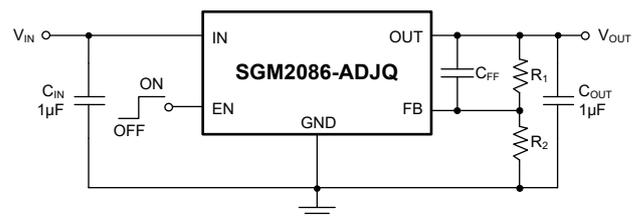
The output voltage of the SGM2086-ADJQ can be adjusted from 0.8V to 5.0V. The FB pin will be connected to two external resistors as shown in Figure 4. The output voltage is determined by the following equation:

$$V_{OUT} = V_{FB} \times \left( 1 + \frac{R_1}{R_2} \right) \tag{1}$$

where:

V<sub>OUT</sub> is output voltage and V<sub>FB</sub> is the internal voltage reference, V<sub>FB</sub> = 0.8V.

One parallel capacitor (C<sub>FF</sub>) with R<sub>1</sub> can be used to improve the feedback loop stability and PSRR, increase the transient response and reduce the output noise. R<sub>1</sub> and R<sub>2</sub> can be calculated for any output voltage range using equation 1. Choose R<sub>2</sub> ≤ 20kΩ to maintain a 40µA minimum load.



**Figure 5. Adjustable Output Voltage Application**

**APPLICATION INFORMATION (continued)**

**Dropout Voltage and V<sub>IN</sub>**

The SGM2086xQ features low dropout voltage due to low R<sub>DS(ON)</sub> PMOSFET power transistor. For Linear regulator, when (V<sub>IN</sub> - V<sub>OUT</sub>) < dropout voltage (V<sub>DROP</sub>), the PMOSFET power transistor will be turned on like a switch and the parameter of linear regulator, such as PSRR, load and input transient responses, will be degraded so much. To get good performance in application, the V<sub>IN</sub> must be larger than (V<sub>OUT</sub> + V<sub>DROP</sub>).

**Enable Operation**

The EN pin of the SGM2086xQ is used to enable/disable the device and to deactivate/activate the output automatic discharge function.

When the EN pin voltage is lower than 0.4V, the device is in shutdown state. There is no current flowing from IN to OUT pins. In this state, the automatic discharge transistor is active to discharge the output voltage through a 120Ω (TYP) resistor.

When the EN pin voltage is higher than 0.88V, the device is in active state. The output voltage is regulated to the expected value and the automatic discharge transistor is turned off.

**Under-Voltage Lockout (UVLO)**

To protect the device from malfunctioning when the input voltage is insufficient, under-voltage lockout (UVLO) protection is included. The device will not operate until the input voltage exceeds UVLO rising threshold, and will lockout if the input voltage falls below the UVLO falling threshold. The local input

capacitance prevents severe brownouts in most applications.

**Output Current Limit Protection**

When overload events happen, the output current is internally limited to 820mA (TYP). When the OUT pin is shorted to ground, the output current is internally limited to 420mA (TYP).

**Thermal Shutdown**

When the die temperature exceeds the threshold value of thermal shutdown, the SGM2086xQ will be in shutdown state and it will remain in this state until the die temperature decreases to +140°C.

**Power Dissipation (P<sub>D</sub>)**

Power dissipation (P<sub>D</sub>) of the SGM2086xQ can be calculated by the equation P<sub>D</sub> = (V<sub>IN</sub> - V<sub>OUT</sub>) × I<sub>OUT</sub>. The maximum allowable power dissipation (P<sub>D(MAX)</sub>) of the SGM2086xQ is affected by many factors, including the difference between junction temperature and ambient temperature (T<sub>J(MAX)</sub> - T<sub>A</sub>), package thermal resistance from the junction to the ambient environment (θ<sub>JA</sub>), the rate of ambient airflow and PCB layout. P<sub>D(MAX)</sub> can be approximated by the following equation:

$$P_{D(MAX)} = (T_{J(MAX)} - T_A) / \theta_{JA} \tag{2}$$

**Layout Guidelines**

To get good PSRR, low output noise and high transient response performance, the input and output bypass capacitors must be placed as close as possible to the IN pin and OUT pin separately.

**REVISION HISTORY**

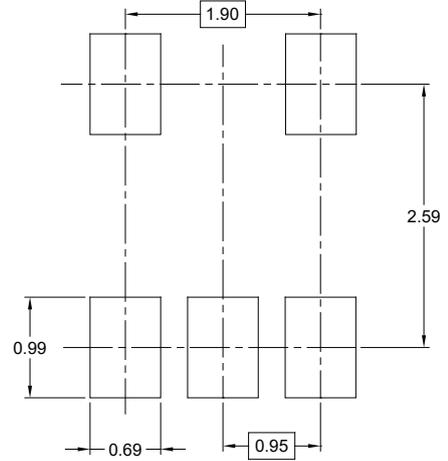
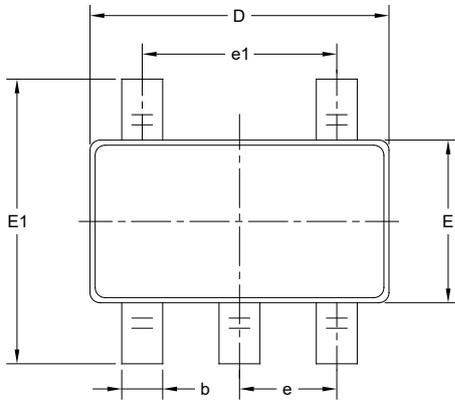
NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

Changes from Original (JUNE 2025) to REV.A	Page
Changed from product preview to production data.....	All

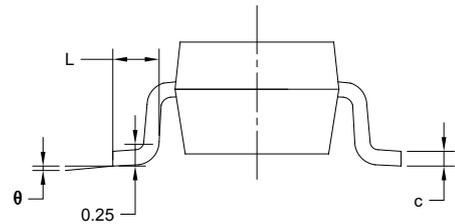
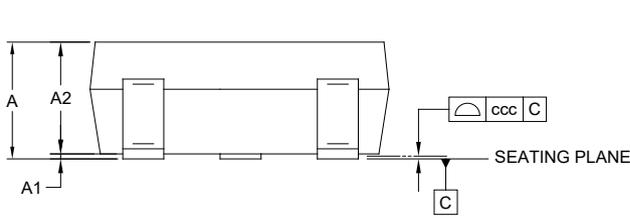
# PACKAGE INFORMATION

## PACKAGE OUTLINE DIMENSIONS

### SOT-23-5



RECOMMENDED LAND PATTERN (Unit: mm)



Symbol	Dimensions In Millimeters		
	MIN	MOD	MAX
A	-	-	1.450
A1	0.000	-	0.150
A2	0.900	-	1.300
b	0.300	-	0.500
c	0.080	-	0.220
D	2.750	-	3.050
E	1.450	-	1.750
E1	2.600	-	3.000
e	0.950 BSC		
e1	1.900 BSC		
L	0.300	-	0.600
$\theta$	0°	-	8°
ccc	0.100		

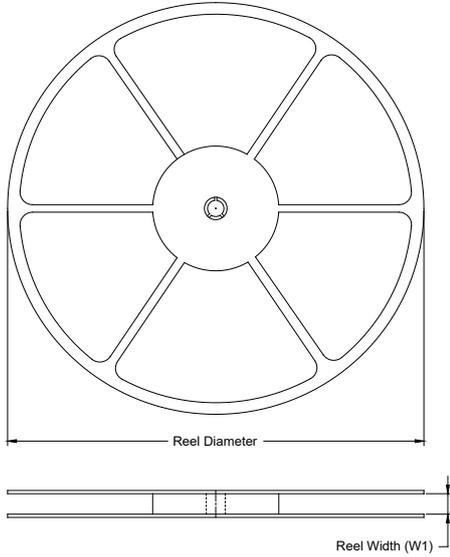
NOTES:

1. This drawing is subject to change without notice.
2. The dimensions do not include mold flashes, protrusions or gate burrs.
3. Reference JEDEC MO-178.

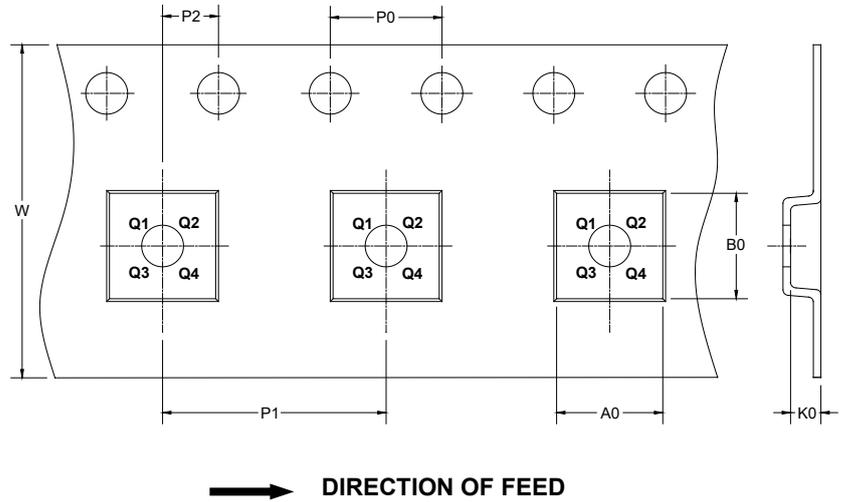
# PACKAGE INFORMATION

## TAPE AND REEL INFORMATION

### REEL DIMENSIONS



### TAPE DIMENSIONS



NOTE: The picture is only for reference. Please make the object as the standard.

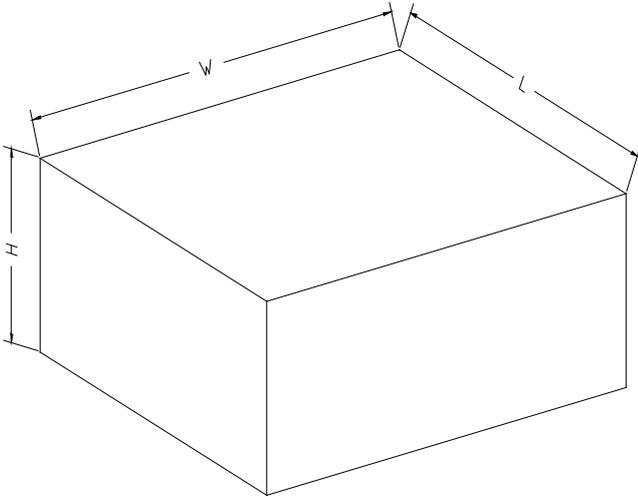
### KEY PARAMETER LIST OF TAPE AND REEL

Package Type	Reel Diameter	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P0 (mm)	P1 (mm)	P2 (mm)	W (mm)	Pin1 Quadrant
SOT-23-5	7"	9.5	3.20	3.20	1.40	4.0	4.0	2.0	8.0	Q3

000001

# PACKAGE INFORMATION

## CARTON BOX DIMENSIONS



NOTE: The picture is only for reference. Please make the object as the standard.

## KEY PARAMETER LIST OF CARTON BOX

Reel Type	Length (mm)	Width (mm)	Height (mm)	Pizza/Carton
7" (Option)	368	227	224	8
7"	442	410	224	18

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