

ABSOLUTE MAXIMUM RATINGS

These are stress ratings only and functional operation of the device at these ratings or any other above those indicated in the operation sections of the specifications below is not implied. Exposure to absolute maximum rating conditions for extended periods of time may affect reliability.

Input Voltage V_{IN} 6.5V
 Enable Pin Input Voltage -0.3 to $V_{IN}+0.3V$
 Output Current..... 300mA
 Junction Temperature 150°C
 Storage Temperature Range -65°C to 150°C
 Lead Soldering (Sold. 10sec) 260°C
 ESD Rating (HBM - Human Body Model) 2kV
 ESD Rating (MM - Machine Model) 200V

OPERATING RATINGS

Input Voltage Range V_{IN} 2.0 to 6.0V
 Junction Temperature Range T_J -40°C to 85°C
 Thermal Resistance θ_{JA} 250°C/W
 Thermal Resistance θ_{JC} 74°C/W

ELECTRICAL SPECIFICATIONS

Specifications with standard type are for an Operating Junction Temperature of $T_J = 25^\circ\text{C}$ only; limits applying over the full Operating Junction Temperature range of -40°C to 85°C are denoted by a “•”. Minimum and Maximum limits are guaranteed through test, design, or statistical correlation. Typical values represent the most likely parametric norm at $T_J = 25^\circ\text{C}$, and are provided for reference purposes only.

SP6260HEK (1.2V) 1.2V version is obsolete

Unless otherwise indicated, $V_{IN} = 2.2V$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$.

Parameter	Min.	Typ.	Max.	Units	Conditions
Output Voltage V_{OUT}	1.176	1.2	1.224	V	$V_{IN}=2.2V$ $1mA \leq I_{OUT} \leq 30mA$
Input Voltage V_{IN}			6	V	
Output Current I_{OUT}	200			mA	$V_{IN}-V_{OUT}=1V$
Load Regulation V_{RLOAD}		12	40	mV	$V_{IN}=2.2V$ $1mA \leq I_{OUT} \leq 80mA$
Line Regulation V_{RLINE}		4	16	mV	$2.2V \leq V_{IN} \leq 6V$ $I_{OUT}=30mA$
Dropout Voltage V_{DROP}		700	900	mV	$I_{OUT}=10mA$
		700	900		$I_{OUT}=100mA$
		700	900		$I_{OUT}=150mA$
		700	900		$I_{OUT}=200mA$
Quiescent Current I_Q		25	50	μA	$V_{IN}=2.2V, I_{OUT}=0mA$
Standby Current I_{STD}		0.1	1	μA	$V_{IN}=2.2V$ V_{CE} in OFF mode
Power Supply Rejection Ratio PSRR		70		dB	Ripple 0.5V _{p-p} , $f=10kHz$ $V_{IN}=2.5V$
Output Voltage Temperature Coefficient		± 120		$\mu V/^\circ C$	• $\Delta V_{OUT}/\Delta T$
		± 100		ppm/ $^\circ C$	• $(\Delta V_{OUT}/V_{OUT})/\Delta T$
Short Current Limit I_{LIMIT}		50		mA	$V_{OUT}=0V$
RMS Output Noise V_{NOISE}		30		μV_{rms}	$T_A=25^\circ C$ $10Hz \leq f \leq 100kHz$
CE “High” Voltage	1.5			V	CE input voltage “High”
CE “Low” Voltage			0.25	V	CE input voltage “Low”
CE Pull-down Resistance R_{PD}	2.5	5	10	M Ω	

SP6260AEK (1.5V) 1.5V version is obsolete

Unless otherwise indicated, $V_{IN} = 2.5V$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$.

Parameter	Min.	Typ.	Max.	Units	Conditions
Output Voltage V_{OUT}	1.47	1.5	1.53	V	$V_{IN}=2.5V$ $1mA \leq I_{OUT} \leq 30mA$
Input Voltage V_{IN}			6	V	
Output Current I_{OUT}	200			mA	$V_{IN}-V_{OUT}=1V$
Load Regulation V_{RLOAD}		12	40	mV	$V_{IN}=2.5V$ $1mA \leq I_{OUT} \leq 80mA$
Line Regulation V_{RLINE}		4	16	mV	$2.3V \leq V_{IN} \leq 6V$ $I_{OUT}=30mA$
Dropout Voltage V_{DROP}		400	600	mV	$I_{OUT}=10mA$
		400	600		$I_{OUT}=100mA$
		400	600		$I_{OUT}=150mA$
		400	600		$I_{OUT}=200mA$
Quiescent Current I_Q		25	50	μA	$V_{IN}=2.5V, I_{OUT}=0mA$
Standby Current I_{STD}		0.1	1	μA	$V_{IN}=2.5V$ V_{CE} in OFF mode
Power Supply Rejection Ratio PSRR		70		dB	Ripple 0.5V _{p-p} , $f=10kHz$ $V_{IN}=2.5V$
Output Voltage Temperature Coefficient		± 150		$\mu V/^{\circ}C$	• $\Delta V_{OUT}/\Delta T$
		± 100		ppm/ $^{\circ}C$	• $(\Delta V_{OUT}/V_{OUT})/\Delta T$
Short Current Limit I_{LIMIT}		50		mA	$V_{OUT}=0V$
RMS Output Noise V_{NOISE}		30		μV_{rms}	$T_A=25^{\circ}C$ $10Hz \leq f \leq 100kHz$
CE "High" Voltage	1.5			V	CE input voltage "High"
CE "Low" Voltage			0.25	V	CE input voltage "Low"
CE Pull-down Resistance R_{PD}	2.5	5	10	M Ω	

SP6260BEK (1.8V) 1.8V version is obsolete

Unless otherwise indicated, $V_{IN} = 2.8V$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$.

Parameter	Min.	Typ.	Max.	Units	Conditions
Output Voltage V_{OUT}	1.764	1.8	1.836	V	$V_{IN}=2.8V$ $1mA \leq I_{OUT} \leq 30mA$
Input Voltage V_{IN}			6	V	
Output Current I_{OUT}	200			mA	$V_{IN}-V_{OUT}=1V$
Load Regulation V_{RLOAD}		12	40	mV	$V_{IN}=2.8V$ $1mA \leq I_{OUT} \leq 80mA$
Line Regulation V_{RLINE}		4	16	mV	$2.3V \leq V_{IN} \leq 6V$ $I_{OUT}=30mA$
Dropout Voltage V_{DROP}		20	40	mV	$I_{OUT}=10mA$
		150	300		$I_{OUT}=100mA$
		200	400		$I_{OUT}=150mA$
		250	500		$I_{OUT}=200mA$
Quiescent Current I_Q		25	50	μA	$V_{IN}=2.8V, I_{OUT}=0mA$
Standby Current I_{STD}		0.1	1	μA	$V_{IN}=2.8V$ V_{CE} in OFF mode
Power Supply Rejection Ratio PSRR		70		dB	Ripple 0.5V _{p-p} , $f=10kHz$ $V_{IN}=2.5V$
Output Voltage Temperature Coefficient		± 180		$\mu V/^{\circ}C$	• $\Delta V_{OUT}/\Delta T$
		± 100		ppm/ $^{\circ}C$	• $(\Delta V_{OUT}/V_{OUT})/\Delta T$

Short Current Limit I_{LIMIT}		50		mA	$V_{OUT}=0V$
RMS Output Noise V_{NOISE}		30		μV_{rms}	$T_A=25^{\circ}C$ $10Hz \leq f \leq 100kHz$
CE "High" Voltage	1.5			V	CE input voltage "High"
CE "Low" Voltage			0.25	V	CE input voltage "Low"
CE Pull-down Resistance R_{PD}	2.5	5	10	$M\Omega$	

SP6260CEK (2.5V) 2.5V version is obsolete

Unless otherwise indicated, $V_{IN} = 3.5V$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$.

Parameter	Min.	Typ.	Max.	Units	Conditions
Output Voltage V_{OUT}	2.45	2.5	2.55	V	$V_{IN}=3.5V$ $1mA \leq I_{OUT} \leq 30mA$
Input Voltage V_{IN}			6	V	
Output Current I_{OUT}	200			mA	$V_{IN}-V_{OUT}=1V$
Load Regulation V_{RLOAD}		12	40	mV	$V_{IN}=3.5V$ $1mA \leq I_{OUT} \leq 80mA$
Line Regulation V_{RLINE}		4	16	mV	$3.0V \leq V_{IN} \leq 6V$ $I_{OUT}=30mA$
Dropout Voltage V_{DROP}		20	40	mV	$I_{OUT}=10mA$
		150	300		$I_{OUT}=100mA$
		200	400		$I_{OUT}=150mA$
		250	500		$I_{OUT}=200mA$
Quiescent Current I_Q		25	50	μA	$V_{IN}=3.5V, I_{OUT}=0mA$
Standby Current I_{STD}		0.1	1	μA	$V_{IN}=3.5V$ V_{CE} in OFF mode
Power Supply Rejection Ratio PSRR		70		dB	Ripple 0.5V _{p-p} , $f=10kHz$ $V_{IN}=2.5V$
Output Voltage Temperature Coefficient		± 250		$\mu V/^{\circ}C$	• $\Delta V_{OUT}/\Delta T$
		± 100		ppm/ $^{\circ}C$	• $(\Delta V_{OUT}/V_{OUT})/\Delta T$
Short Current Limit I_{LIMIT}		50		mA	$V_{OUT}=0V$
RMS Output Noise V_{NOISE}		30		μV_{rms}	$T_A=25^{\circ}C$ $10Hz \leq f \leq 100kHz$
CE "High" Voltage	1.5			V	CE input voltage "High"
CE "Low" Voltage			0.25	V	CE input voltage "Low"
CE Pull-down Resistance R_{PD}	2.5	5	10	$M\Omega$	

SP6260DEK (2.8V) 2.8V version is obsolete

Unless otherwise indicated, $V_{IN} = 3.8V$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$.

Parameter	Min.	Typ.	Max.	Units	Conditions
Output Voltage V_{OUT}	2.744	2.8	2.856	V	$V_{IN}=3.8V$ $1mA \leq I_{OUT} \leq 30mA$
Input Voltage V_{IN}			6	V	
Output Current I_{OUT}	200			mA	$V_{IN}-V_{OUT}=1V$
Load Regulation V_{RLOAD}		12	40	mV	$V_{IN}=3.8V$ $1mA \leq I_{OUT} \leq 80mA$
Line Regulation V_{RLINE}		4	16	mV	$3.3V \leq V_{IN} \leq 6V$ $I_{OUT}=30mA$
Dropout Voltage V_{DROP}		20	40	mV	$I_{OUT}=10mA$
		150	300		$I_{OUT}=100mA$
		200	400		$I_{OUT}=150mA$
		250	500		$I_{OUT}=200mA$

200mA RF Low Noise LDO Regulator

Quiescent Current I_Q		25	50	μA	$V_{IN}=3.8V, I_{OUT}=0mA$
Standby Current I_{STD}		0.1	1	μA	$V_{IN}=3.8V$ V_{CE} in OFF mode
Power Supply Rejection Ratio PSRR		70		dB	Ripple 0.5V _{p-p} , $f=10kHz$ $V_{IN}=2.5V$
Output Voltage Temperature Coefficient		± 280		$\mu V/^{\circ}C$	• $\Delta V_{OUT}/\Delta T$
		± 100		ppm/ $^{\circ}C$	• $(\Delta V_{OUT}/V_{OUT})/\Delta T$
Short Current Limit I_{LIMIT}		50		mA	$V_{OUT}=0V$
RMS Output Noise V_{NOISE}		30		μV_{rms}	$T_A=25^{\circ}C$ $10Hz \leq f \leq 100kHz$
CE "High" Voltage	1.5			V	CE input voltage "High"
CE "Low" Voltage			0.25	V	CE input voltage "Low"
CE Pull-down Resistance R_{PD}	2.5	5	10	M Ω	

SP6260EEK (3.0V) 3.0V version is obsolete

Unless otherwise indicated, $V_{IN} = 4.0V$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$.

Parameter	Min.	Typ.	Max.	Units	Conditions
Output Voltage V_{OUT}	2.940	3.0	3.060	V	$V_{IN}=4.0V$ $1mA \leq I_{OUT} \leq 30mA$
Input Voltage V_{IN}			6	V	
Output Current I_{OUT}	200			mA	$V_{IN}-V_{OUT}=1V$
Load Regulation V_{RLOAD}		12	40	mV	$V_{IN}=4.0V$ $1mA \leq I_{OUT} \leq 80mA$
Line Regulation V_{RLINE}		4	16	mV	$3.5V \leq V_{IN} \leq 6V$ $I_{OUT}=30mA$
Dropout Voltage V_{DROP}		20	40	mV	$I_{OUT}=10mA$
		150	300		$I_{OUT}=100mA$
		200	400		$I_{OUT}=150mA$
		250	500		$I_{OUT}=200mA$
Quiescent Current I_Q		25	50	μA	$V_{IN}=4.0V, I_{OUT}=0mA$
Standby Current I_{STD}		0.1	1	μA	$V_{IN}=4.0V$ V_{CE} in OFF mode
Power Supply Rejection Ratio PSRR		70		dB	Ripple 0.5V _{p-p} , $f=10kHz$ $V_{IN}=2.5V$
Output Voltage Temperature Coefficient		± 300		$\mu V/^{\circ}C$	• $\Delta V_{OUT}/\Delta T$
		± 100		ppm/ $^{\circ}C$	• $(\Delta V_{OUT}/V_{OUT})/\Delta T$
Short Current Limit I_{LIMIT}		50		mA	$V_{OUT}=0V$
RMS Output Noise V_{NOISE}		30		μV_{rms}	$T_A=25^{\circ}C$ $10Hz \leq f \leq 100kHz$
CE "High" Voltage	1.5			V	CE input voltage "High"
CE "Low" Voltage			0.25	V	CE input voltage "Low"
CE Pull-down Resistance R_{PD}	2.5	5	10	M Ω	

SP6260FEK (3.2V) 3.2V version is obsolete

Unless otherwise indicated, $V_{IN} = 4.2V$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$.

Parameter	Min.	Typ.	Max.	Units	Conditions
Output Voltage V_{OUT}	3.136	3.2	3.264	V	$V_{IN}=4.2V$ $1mA \leq I_{OUT} \leq 30mA$
Input Voltage V_{IN}			6	V	
Output Current I_{OUT}	200			mA	$V_{IN}-V_{OUT}=1V$

200mA RF Low Noise LDO Regulator

Load Regulation V_{RLOAD}		12	40	mV	$V_{IN}=4.2V$ $1mA \leq I_{OUT} \leq 80mA$
Line Regulation V_{RLINE}		4	16	mV	$3.7V \leq V_{IN} \leq 6V$ $I_{OUT}=30mA$
Dropout Voltage V_{DROP}		20	40	mV	$I_{OUT}=10mA$
		150	300		$I_{OUT}=100mA$
		200	400		$I_{OUT}=150mA$
		250	500		$I_{OUT}=200mA$
Quiescent Current I_Q		25	50	μA	$V_{IN}=4.2V, I_{OUT}=0mA$
Standby Current I_{STD}		0.1	1	μA	$V_{IN}=4.2V$ V_{CE} in OFF mode
Power Supply Rejection Ratio PSRR		70		dB	Ripple $0.5V_{p-p}$, $f=10kHz$ $V_{IN}=2.5V$
Output Voltage Temperature Coefficient		± 320		$\mu V/^{\circ}C$	• $\Delta V_{OUT}/\Delta T$
		± 100		ppm/ $^{\circ}C$	• $(\Delta V_{OUT}/V_{OUT})/\Delta T$
Short Current Limit I_{LIMIT}		50		mA	$V_{OUT}=0V$
RMS Output Noise V_{NOISE}		30		μV_{rms}	$T_A=25^{\circ}C$ $10Hz \leq f \leq 100kHz$
CE "High" Voltage	1.5			V	CE input voltage "High"
CE "Low" Voltage			0.25	V	CE input voltage "Low"
CE Pull-down Resistance R_{PD}	2.5	5	10	$M\Omega$	

SP6260GEK (3.3V) Available

Unless otherwise indicated, $V_{IN} = 4.3V$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$.

Parameter	Min.	Typ.	Max.	Units	Conditions
Output Voltage V_{OUT}	3.234	3.3	3.366	V	$V_{IN}=4.3V$ $1mA \leq I_{OUT} \leq 30mA$
Input Voltage V_{IN}			6	V	
Output Current I_{OUT}	200			mA	$V_{IN}-V_{OUT}=1V$
Load Regulation V_{RLOAD}		12	40	mV	$V_{IN}=4.3V$ $1mA \leq I_{OUT} \leq 80mA$
Line Regulation V_{RLINE}		4	16	mV	$3.8V \leq V_{IN} \leq 6V$ $I_{OUT}=30mA$
Dropout Voltage V_{DROP}		20	40	mV	$I_{OUT}=10mA$
		150	300		$I_{OUT}=100mA$
		200	400		$I_{OUT}=150mA$
		250	500		$I_{OUT}=200mA$
Quiescent Current I_Q		25	50	μA	$V_{IN}=4.3V, I_{OUT}=0mA$
Standby Current I_{STD}		0.1	1	μA	$V_{IN}=4.3V$ V_{CE} in OFF mode
Power Supply Rejection Ratio PSRR		70		dB	Ripple $0.5V_{p-p}$, $f=10kHz$ $V_{IN}=2.5V$
Output Voltage Temperature Coefficient		± 330		$\mu V/^{\circ}C$	• $\Delta V_{OUT}/\Delta T$
		± 100		ppm/ $^{\circ}C$	• $(\Delta V_{OUT}/V_{OUT})/\Delta T$
Short Current Limit I_{LIMIT}		50		mA	$V_{OUT}=0V$
RMS Output Noise V_{NOISE}		30		μV_{rms}	$T_A=25^{\circ}C$ $10Hz \leq f \leq 100kHz$
CE "High" Voltage	1.5			V	CE input voltage "High"
CE "Low" Voltage			0.25	V	CE input voltage "Low"
CE Pull-down Resistance R_{PD}	2.5	5	10	$M\Omega$	

BLOCK DIAGRAM

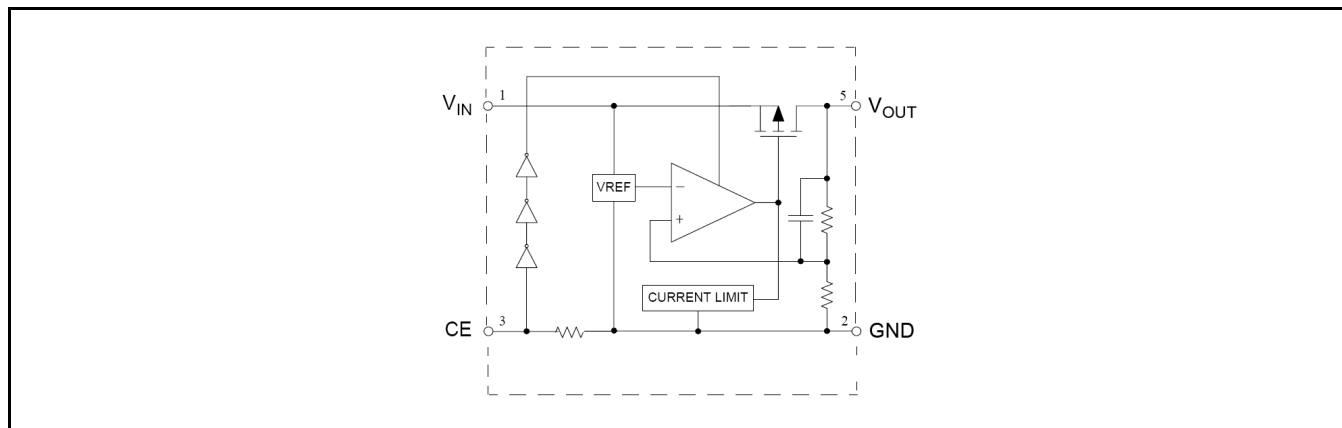


Fig. 2: SP6260 Block Diagram

PIN ASSIGNMENT

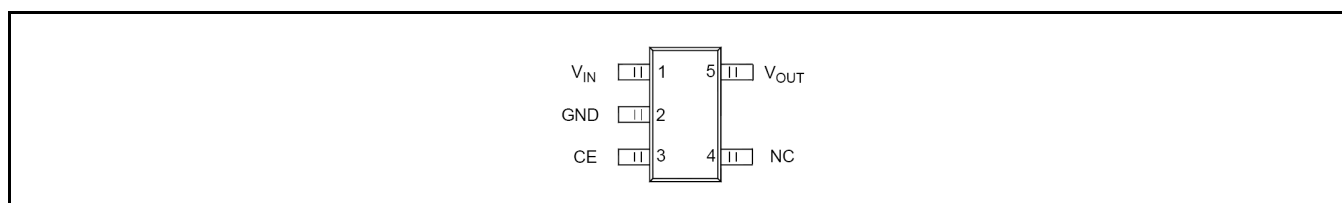


Fig. 3: SP6260 Pin Assignment

PIN DESCRIPTION

Name	Pin Number	Description
V_{IN}	1	Input voltage
GND	2	Ground
CE	3	Enable input pin. high=enable low=shutdown
NC	4	No connection
V_{OUT}	5	Regulated output voltage

ORDERING INFORMATION⁽¹⁾

Part Number	Junction Temperature Range	Package	Packing Method	Lead free ⁽²⁾	Note 1
SP6260GEK-L/TR	-40°C to +85°C	SOT-23-5	Tape & Reel	Yes	3.3V version

Notes:

1. Refer to www.maxlinear.com/SP6260 for most up-to-date Ordering Information.
2. Visit www.maxlinear.com for additional information on Environmental Rating.

TYPICAL PERFORMANCE CHARACTERISTICS

All data taken at $V_{IN} = 2.7V$ to $5.5V$, $T_J = T_A = 25^\circ C$, unless otherwise specified - Schematic and BOM from Application Information section of this datasheet.

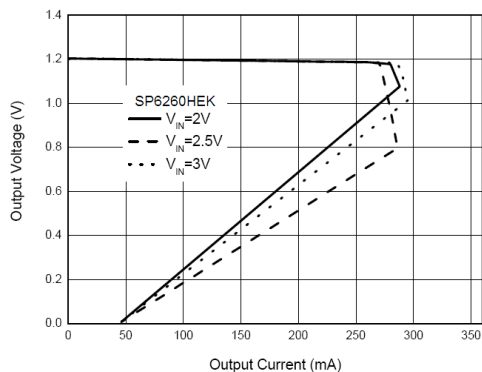


Fig. 4: Output Voltage vs. Output Current
SP6260HEK (1.2V)

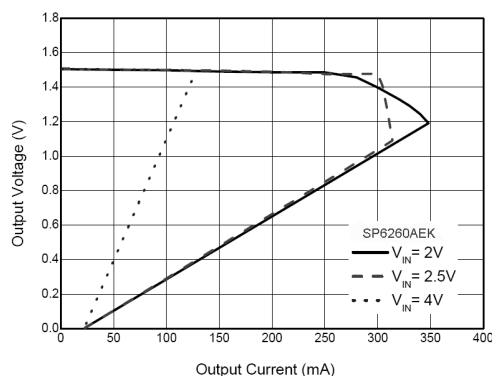


Fig. 5: Output Voltage vs. Output Current
SP6260AEK (1.5V)

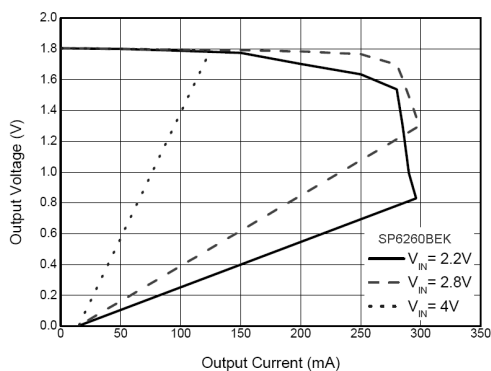


Fig. 6: Output Voltage vs. Output Current
SP6260BEK (1.8V)

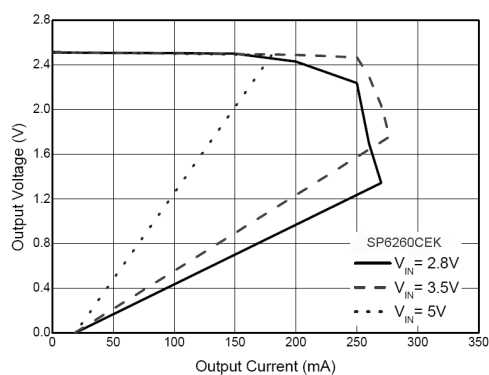


Fig. 7: Output Voltage vs. Output Current
SP6260CEK (2.5V)

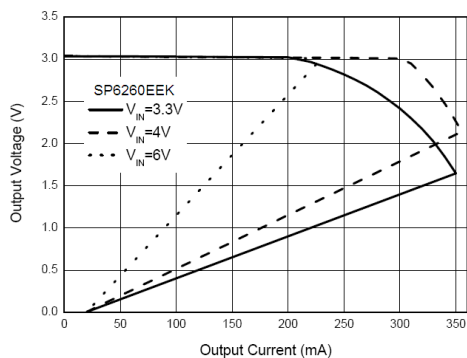


Fig. 8: Output Voltage vs. Output Current
SP6260EEK (3.0V)

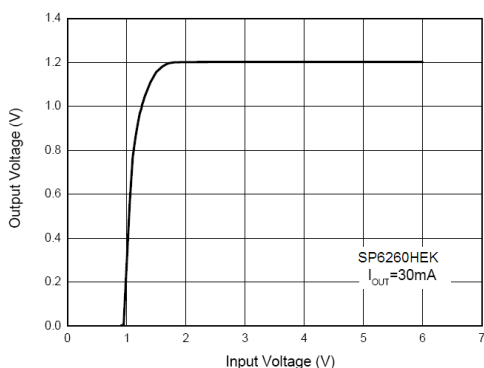


Fig. 9: Output Voltage vs. Input Voltage
SP6260HEK (1.2V)

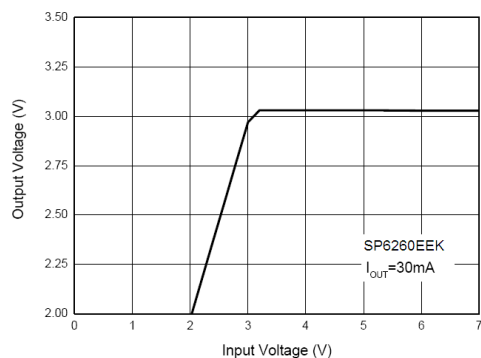


Fig. 10: Output Voltage vs. Input Voltage
SP6260EEK (3.0V)

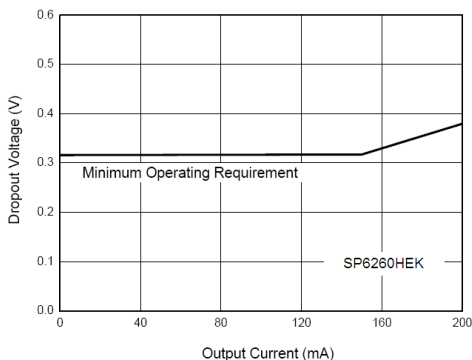


Fig. 11: Dropout Voltage vs. Output Current
SP6260HEK-L (1.2V)

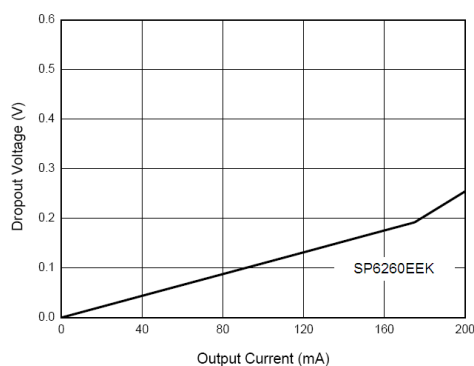


Fig. 12: Dropout Voltage vs. Output Current
SP6260EEK-L (3.0V)

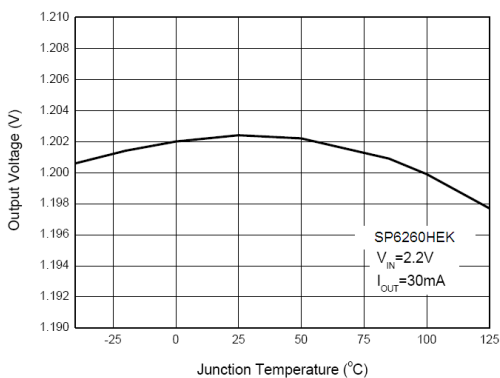


Fig. 13: Output Voltage vs. Junction Temperature
SP6260HEK-L (1.2V)

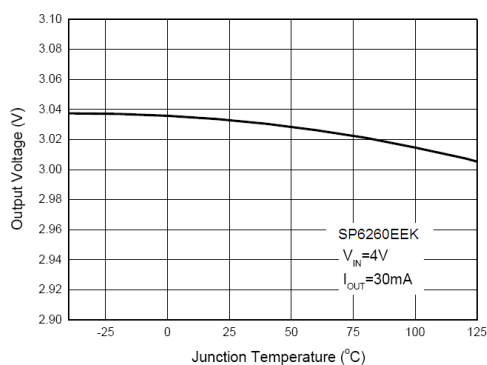


Fig. 14: Output Voltage vs. Junction Temperature
SP6260EEK-L (3.0V)

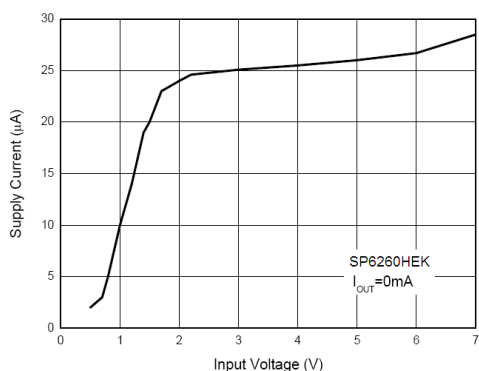


Fig. 15: Supply Current vs. Input Voltage
SP6260HEK (1.2V)

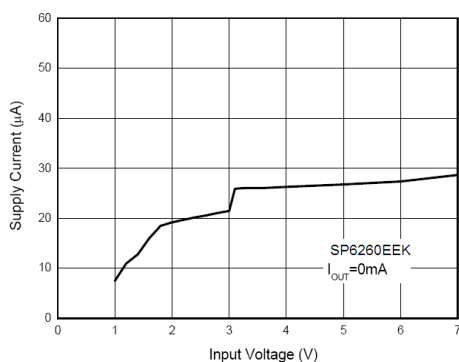


Fig. 16: Supply Current vs. Input Voltage
SP6260EEK (3.0V)

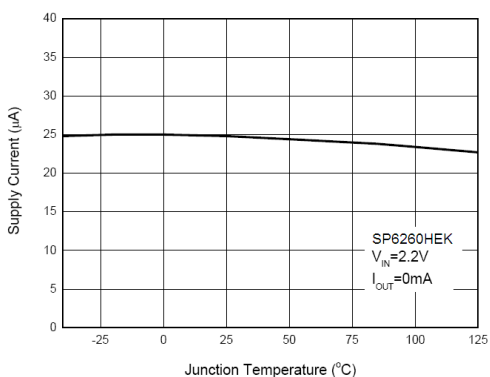


Fig. 17: Supply Current vs. Junction Temperature
SP6260HEK (1.2V)

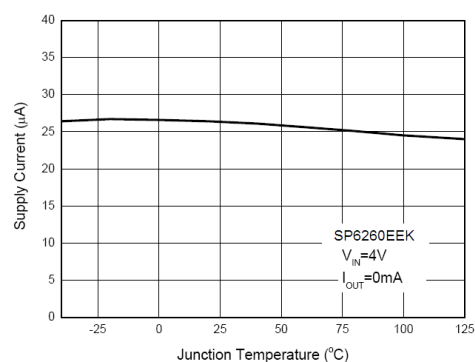


Fig. 18: Supply Current vs. Junction Temperature
SP6260EEK (3.0)

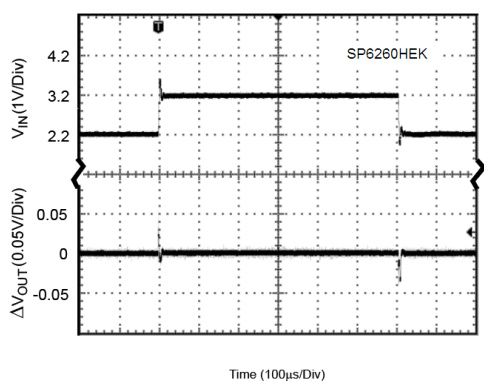


Fig. 19: Line Transient SP6260HEK (1.2V)
(Conditions: $I_{OUT}=30\text{mA}$, $C_{IN}=1\mu\text{F}$, $C_{OUT}=1\mu\text{F}$)

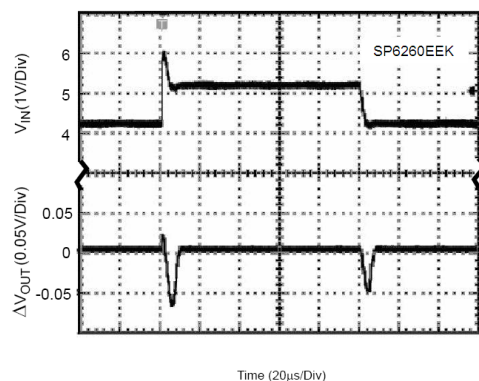


Fig. 20: Line Transient SP6260EEK (3.0V)
(Conditions: $I_{OUT}=30\text{mA}$, $C_{IN}=1\mu\text{F}$, $C_{OUT}=1\mu\text{F}$)

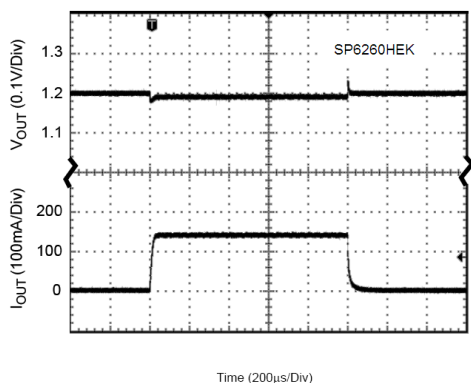


Fig. 21: Line Transient SP6260HEK (1.2V)
(Conditions: $V_{IN}=2.5V$, $C_{IN}=1\mu F$, $C_{OUT}=1\mu F$)

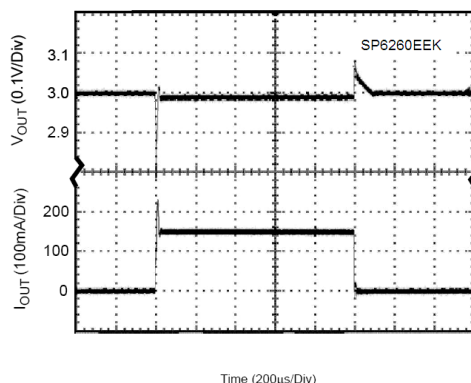


Fig. 22: Line Transient SP6260EEK (3.0V)
(Conditions: $V_{IN}=4V$, $C_{IN}=1\mu F$, $C_{OUT}=1\mu F$)

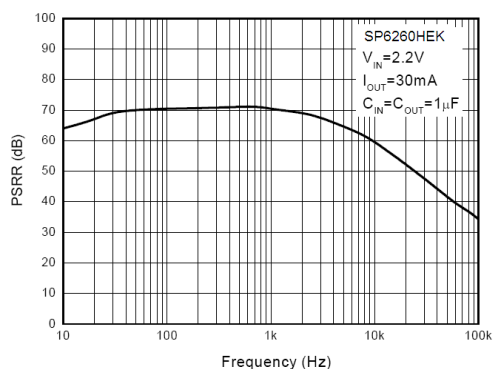


Fig. 23: PSRR vs. Frequency
SP6260HEK (1.2V)

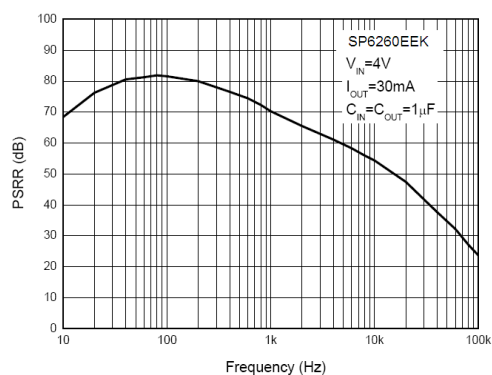
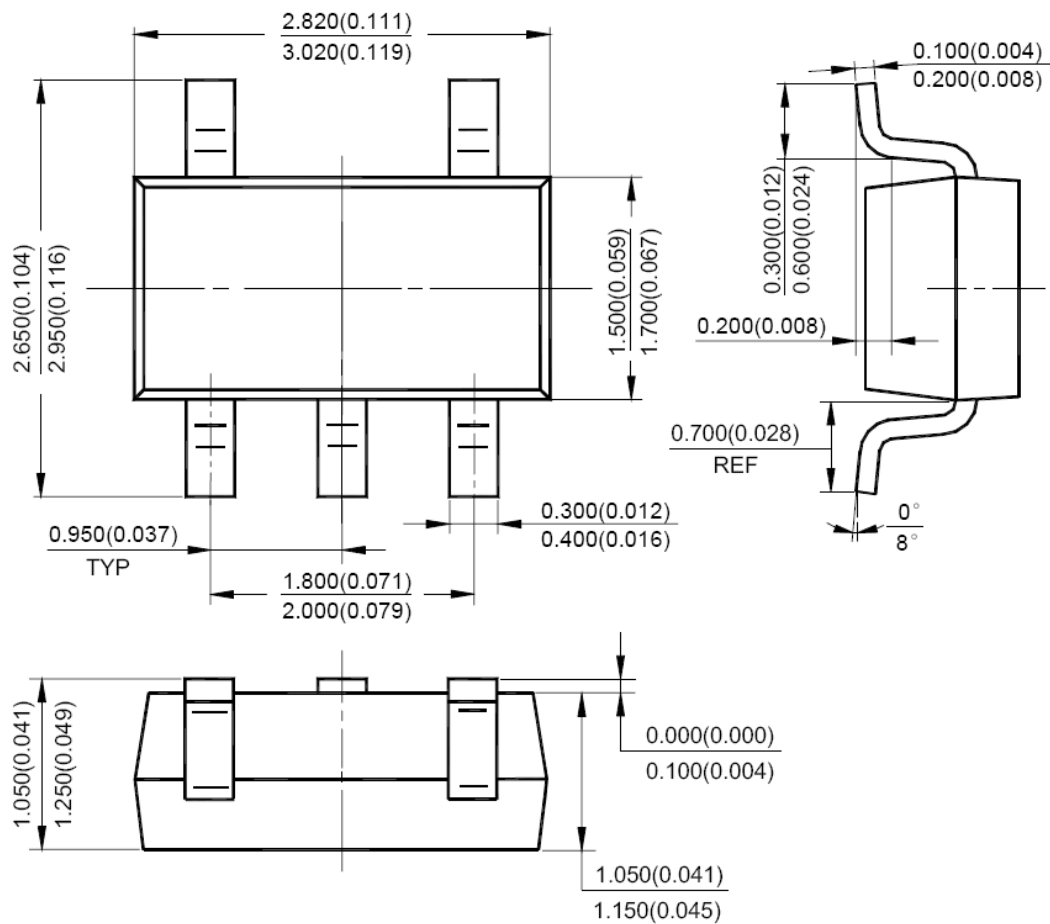


Fig. 21: PSRR vs. Frequency
SP6260EEK (3.0V)

PACKAGE SPECIFICATION
5-PIN SOT-23

Unit: mm (inch)



**REVISION HISTORY**

Revision	Date	Description
0.1		Initial Data Sheet
2.0.0	10/27/2010	Reformat of datasheet Increased output current capabilities to 200mA Removal of 1.5V version curves Addition of the 1.2V version data and curves
2.1.0	01/26/2011	Corrected Electrical tables V_{OUT} range for SP6260E, SP6260F and SP6260G Addition of "Output Current vs Output Voltage" curves figures 5, 6 and 7.
2.1.1	01/24/20	Updated to MaxLinear logo. Updated Ordering Information.

**CORPORATE HEADQUARTERS:**

5966 La Place Court

Suite 100

Carlsbad, CA 92008

Tel.: +1 (760) 692-0711

Fax: +1 (760) 444-8598

www.maxlinear.com

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