



Low Power Consumption LDO ME6209 Series

General Description

The ME6209 series are a group of positive voltage output, three – pin regulator, that provide a high current even when the input/output Voltage differential is small. Low power consumption and high accuracy is achieved through CMOS technology. They allow input voltages as high as 18V.

Features

- Ultra low quiescent current: 3.0uA(typ)
- High input voltage (up to 18V)
- Low dropout voltage :
80mV@Iout=40mA ($V_{OUT}=3.3V$)
- Output voltage accuracy:
 $\pm 1\%$ ($V_{OUT} = 2.8V、3.3V、5.0V$)
 $\pm 2\%$ (Others)
- Maximum output current: 250mA ($V_{OUT} = 3.3V$)
- Low temperature coefficient

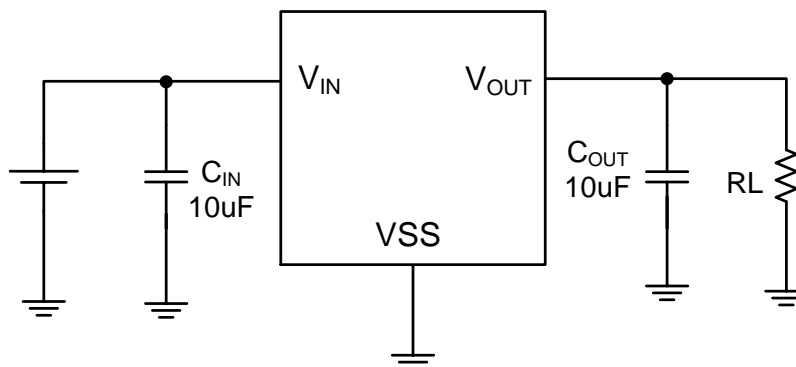
Typical Application

- Cameras, video recorders
- Voltage regulator for microprocessor
- Voltage regulator for LAN cards
- Wireless communication equipment
- Audio/Video equipment

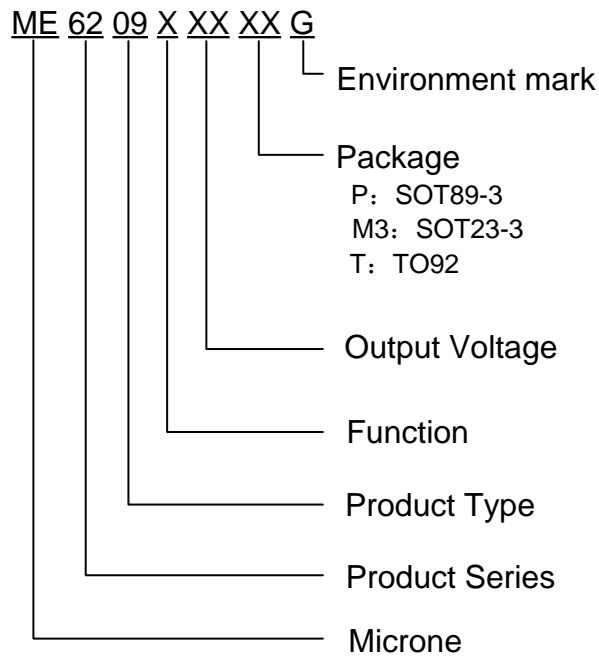
Package

- 3-pin SOT23-3、SOT89-3、TO-92

Typical Application Circuit



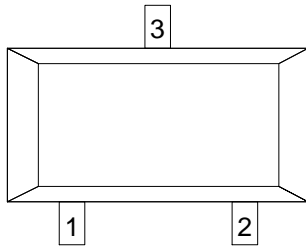
Selection Guide



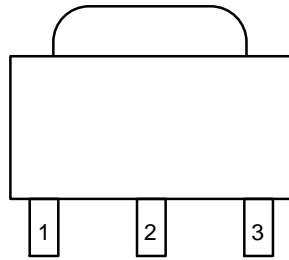
product series	product description
ME6209A18M3G	$V_{OUT} = 1.8V \pm 2\%$; Package: SOT23-3
ME6209A25TG	$V_{OUT} = 2.5V \pm 2\%$; Package: TO-92
ME6209A27M3G	$V_{OUT} = 2.7V \pm 2\%$; Package: SOT23-3
ME6209A28M3G	$V_{OUT} = 2.8V \pm 1\%$; Package: SOT23-3
ME6209A33PG	$V_{OUT} = 3.3V \pm 1\%$; Package: SOT89-3
ME6209A44PG	$V_{OUT} = 4.4V \pm 2\%$; Package: SOT89-3
ME6209A50M3G	$V_{OUT} = 5.0V \pm 1\%$; Package: SOT23-3

NOTE: At present ,there are eleven kinds of voltage value:
 1.8V、2.5V、2.7V、2.8V、3.0V、3.3V、3.6V、4.0V、4.4V、4.5V、5.0V。
 If you need other voltage and package, please contact our sales staff.

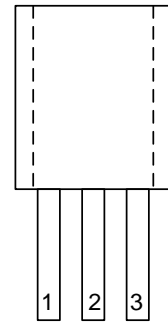
Pin Configuration



SOT23-3



SOT89-3

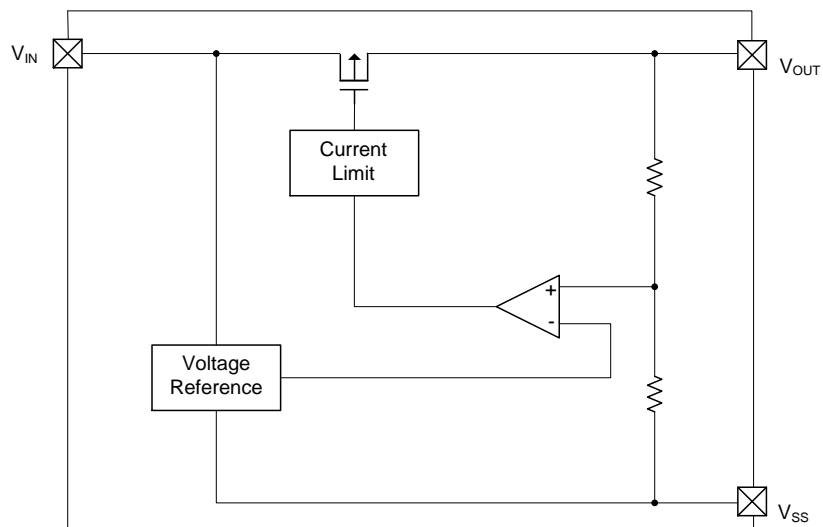


TO-92

Pin Assignment

Pin Num		Symbol	Function
SOT89-3/TO-92	SOT23-3		
1	1	V_{SS}	Ground
2	3	V_{IN}	Input
3	2	V_{OUT}	Output

Block Diagram



Absolute Maximum Ratings

Parameter		Symbol	Ratings	Units
Input Voltage		V_{IN}	18	V
Output Voltage		V_{OUT}	$V_{SS}-0.3 \sim V_{IN}+0.3$	V
Output Current		I_{OUT}	500	mA
Operating Temperature Range		T_{OPR}	-40 ~ +85	°C
Storage Temperature Range		T_{STG}	-55 ~ +150	°C
Maximum junction temperature		T_J	-40 ~ +150	°C
Power Dissipation	SOT23-3	P_D	0.54	W
	SOT89-3		1.25	
	TO-92		0.83	
Thermal resistance	SOT23-3	θ_{JA}	230	°C /W
	SOT89-3		100	
	TO-92		150	

Electrical Characteristics

ME6209A18 ($V_{IN}=V_{OUT}+1.0V$, $C_{IN}=C_L=10\mu F$, $T_a=25^\circ C$, unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Output Voltage	$V_{OUT(E)}$ (Note 2)	$I_{OUT}=10mA$, $V_{IN}=V_{OUT}+1V$	X 0.98	$V_{OUT(T)}$ (Note 1)	X 1.02	V
Input Voltage	V_{IN}				18	V
Maximum Output Current	I_{OUT_max}	$V_{IN}=V_{OUT}+1V$		250		mA
Load Regulation	ΔV_{OUT}	$V_{IN}=V_{OUT}+1V$, $1mA \leq I_{OUT} \leq 60mA$		10	40	mV
Dropout Voltage (Note 3)	V_{DIF}	$I_{OUT}=40mA$		150		mV
Supply Current	I_{SS}	$V_{IN}=V_{OUT}+1V$		3	5	μA
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN}} \times V_{OUT}$	$I_{OUT}=10mA$ $V_{OUT}+1V \leq V_{IN} \leq 18V$		0.1	0.2	%/V
$\Delta V_{OUT}/\Delta T_a$	Temperature Coefficient	$V_{IN}=V_{OUT}+1V$, $I_{OUT}=10mA$ $-40^\circ C < T_a < 85^\circ C$		± 0.7		mV/°C

ME6209A25 ($V_{IN}=V_{OUT}+1.0V$, $C_{IN}=C_L=10\mu F$, $T_a=25^\circ C$, unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Output Voltage	$V_{OUT(E)}$ (Note 2)	$I_{OUT}=10mA$, $V_{IN}=V_{OUT}+1V$	X 0.98	$V_{OUT(T)}$ (Note 1)	X 1.02	V
Input Voltage	V_{IN}				18	V
Maximum Output Current	I_{OUT_max}	$V_{IN}=V_{OUT}+1V$		250		mA

Load Regulation	ΔV_{OUT}	$V_{IN}=V_{OUT}+1V,$ $1mA \leq I_{OUT} \leq 60mA$	10	40	mV
Dropout Voltage (Note 3)	V_{DIF}	$I_{OUT} = 40mA$	100		mV
Supply Current	I_{SS}	$V_{IN}=V_{OUT}+1V$	3	5	μA
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN}} \times V_{OUT}$	$I_{OUT} = 10mA$ $V_{OUT}+1V \leq V_{IN} \leq 18V$	0.1	0.2	%/V
$\Delta V_{OUT}/\Delta Ta$	Temperature Coefficient	$V_{IN}=V_{OUT}+1V, I_{OUT} = 10mA$ $-40^{\circ}C < Ta < 85^{\circ}C$	± 0.7		mV/ $^{\circ}C$

ME6209A27 ($V_{IN} = V_{OUT} + 1.0V$, $C_{IN} = C_L = 10\mu F$, $T_a = 25^{\circ}C$, unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Output Voltage	$V_{OUT}(E)$ (Note 2)	$I_{OUT} = 10mA,$ $V_{IN} = V_{OUT} + 1V$	X 0.98	$V_{OUT}(T)$ (Note 1)	X 1.02	V
Input Voltage	V_{IN}				18	V
Maximum Output Current	I_{OUT_max}	$V_{IN} = V_{OUT} + 1V$		250		mA
Load Regulation	ΔV_{OUT}	$V_{IN} = V_{OUT} + 1V,$ $1mA \leq I_{OUT} \leq 60mA$		10	40	mV
Dropout Voltage (Note 3)	V_{DIF}	$I_{OUT} = 40mA$		90		mV
Supply Current	I_{SS}	$V_{IN} = V_{OUT} + 1V$		3	5	μA
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN}} \times V_{OUT}$	$I_{OUT} = 10mA$ $V_{OUT} + 1V \leq V_{IN} \leq 18V$		0.1	0.2	%/V
$\Delta V_{OUT}/\Delta Ta$	Temperature Coefficient	$V_{IN} = V_{OUT} + 1V, I_{OUT} = 10mA$ $-40^{\circ}C < Ta < 85^{\circ}C$		± 0.7		mV/ $^{\circ}C$

ME6209A28 ($V_{IN} = V_{OUT} + 1.0V$, $C_{IN} = C_L = 10\mu F$, $T_a = 25^{\circ}C$, unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Output Voltage	$V_{OUT}(E)$ (Note 2)	$I_{OUT} = 10mA,$ $V_{IN} = V_{OUT} + 1V$	X 0.99	$V_{OUT}(T)$ (Note 1)	X 1.01	V
Input Voltage	V_{IN}				18	V
Maximum Output Current	I_{OUT_max}	$V_{IN} = V_{OUT} + 1V$		250		mA
Load Regulation	ΔV_{OUT}	$V_{IN} = V_{OUT} + 1V,$ $1mA \leq I_{OUT} \leq 60mA$		10	40	mV
Dropout Voltage (Note 3)	V_{DIF}	$I_{OUT} = 40mA$		90		mV
Supply Current	I_{SS}	$V_{IN} = V_{OUT} + 1V$		3	5	μA
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN}} \times V_{OUT}$	$I_{OUT} = 10mA$ $V_{OUT} + 1V \leq V_{IN} \leq 18V$		0.1	0.2	%/V
$\Delta V_{OUT}/\Delta Ta$	Temperature Coefficient	$V_{IN} = V_{OUT} + 1V, I_{OUT} = 10mA$ $-40^{\circ}C < Ta < 85^{\circ}C$		± 0.7		mV/ $^{\circ}C$

ME6209A30 ($V_{IN}=V_{OUT}+1.0V$, $C_{IN}=C_L=10\mu F$, $T_a=25^\circ C$, unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Output Voltage	$V_{OUT(E)}$ (Note 2)	$I_{OUT}=10mA$, $V_{IN}=V_{OUT}+1V$	X 0.98	$V_{OUT(T)}$ (Note 1)	X 1.02	V
Input Voltage	V_{IN}				18	V
Maximum Output Current	I_{OUT_max}	$V_{IN}=V_{OUT}+1V$		250		mA
Load Regulation	ΔV_{OUT}	$V_{IN}=V_{OUT}+1V$, $1mA \leq I_{OUT} \leq 60mA$		20	40	mV
Dropout Voltage (Note 3)	V_{DIF}	$I_{OUT}=40mA$		80		mV
Supply Current	I_{SS}	$V_{IN}=V_{OUT}+1V$		3	5	μA
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	$I_{OUT}=10mA$ $V_{OUT}+1V \leq V_{IN} \leq 18V$		0.1	0.2	%/V
$\Delta V_{OUT}/\Delta T_a$	Temperature Coefficient	$V_{IN}=V_{OUT}+1V$, $I_{OUT}=10mA$ $-40^\circ C < T_a < 85^\circ C$		± 0.7		mV/ $^\circ C$

ME6209A33 ($V_{IN}=V_{OUT}+1.0V$, $C_{IN}=C_L=10\mu F$, $T_a=25^\circ C$, unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Output Voltage	$V_{OUT(E)}$ (Note 2)	$I_{OUT}=10mA$, $V_{IN}=V_{OUT}+1V$	X 0.99	$V_{OUT(T)}$ (Note 1)	X 1.01	V
Input Voltage	V_{IN}				18	V
Maximum Output Current	I_{OUT_max}	$V_{IN}=V_{OUT}+1V$		250		mA
Load Regulation	ΔV_{OUT}	$V_{IN}=V_{OUT}+1V$, $1mA \leq I_{OUT} \leq 60mA$		15	40	mV
Dropout Voltage (Note 3)	V_{DIF}	$I_{OUT}=40mA$		80		mV
Supply Current	I_{SS}	$V_{IN}=V_{OUT}+1V$		3	5	μA
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	$I_{OUT}=10mA$ $V_{OUT}+1V \leq V_{IN} \leq 18V$		0.05	0.2	%/V
$\Delta V_{OUT}/\Delta T_a$	Temperature Coefficient	$V_{IN}=V_{OUT}+1V$, $I_{OUT}=10mA$ $-40^\circ C < T_a < 85^\circ C$		± 0.7		mV/ $^\circ C$

ME6209A36 ($V_{IN}=V_{OUT}+1.0V$, $C_{IN}=C_L=10\mu F$, $T_a=25^\circ C$, unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Output Voltage	$V_{OUT(E)}$ (Note 2)	$I_{OUT}=10mA$, $V_{IN}=V_{OUT}+1V$	X 0.98	$V_{OUT(T)}$ (Note 1)	X 1.02	V
Input Voltage	V_{IN}				18	V
Maximum Output Current	I_{OUT_max}	$V_{IN}=V_{OUT}+1V$		250		mA
Load Regulation	ΔV_{OUT}	$V_{IN}=V_{OUT}+1V$, $1mA \leq I_{OUT} \leq 60mA$		15	40	mV
Dropout Voltage (Note 3)	V_{DIF}	$I_{OUT}=40mA$		80		mV

Supply Current	I_{SS}	$V_{IN}=V_{OUT}+1V$		3	5	μA
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	$I_{OUT}=10mA$ $V_{OUT}+1V \leq V_{IN} \leq 18V$		0.05	0.2	%/V
$\Delta V_{OUT}/\Delta T_a$	Temperature Coefficient	$V_{IN}=V_{OUT}+1V, I_{OUT}=10mA$ $-40^\circ C < T_a < 85^\circ C$		± 0.7		mV/°C

ME6209A40 ($V_{IN}=V_{OUT}+1.0V$, $C_{IN}=C_L=10\mu F$, $T_a=25^\circ C$, unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Output Voltage	$V_{OUT}(E)$ (Note 2)	$I_{OUT}=10mA$, $V_{IN}=V_{OUT}+1V$	X 0.98	$V_{OUT}(T)$ (Note 1)	X 1.02	V
Input Voltage	V_{IN}				18	V
Maximum Output Current	I_{OUT_max}	$V_{IN}=V_{OUT}+1V$		250		mA
Load Regulation	ΔV_{OUT}	$V_{IN}=V_{OUT}+1V$, $1mA \leq I_{OUT} \leq 60mA$		15	40	mV
Dropout Voltage (Note 3)	V_{DIF}	$I_{OUT}=40mA$		75		mV
Supply Current	I_{SS}	$V_{IN}=V_{OUT}+1V$		3	5	μA
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	$I_{OUT}=10mA$ $V_{OUT}+1V \leq V_{IN} \leq 18V$		0.1	0.2	%/V
$\Delta V_{OUT}/\Delta T_a$	Temperature Coefficient	$V_{IN}=V_{OUT}+1V, I_{OUT}=10mA$ $-40^\circ C < T_a < 85^\circ C$		± 0.7		mV/°C

ME6209A44 ($V_{IN}=V_{OUT}+1.0V$, $C_{IN}=C_L=10\mu F$, $T_a=25^\circ C$, unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Output Voltage	$V_{OUT}(E)$ (Note 2)	$I_{OUT}=10mA$, $V_{IN}=V_{OUT}+1V$	X 0.98	$V_{OUT}(T)$ (Note 1)	X 1.02	V
Input Voltage	V_{IN}				18	V
Maximum Output Current	I_{OUT_max}	$V_{IN}=V_{OUT}+1V$		250		mA
Load Regulation	ΔV_{OUT}	$V_{IN}=V_{OUT}+1V$, $1mA \leq I_{OUT} \leq 60mA$		15	40	mV
Dropout Voltage (Note 3)	V_{DIF}	$I_{OUT}=40mA$		70		mV
Supply Current	I_{SS}	$V_{IN}=V_{OUT}+1V$		3	5	μA
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	$I_{OUT}=10mA$ $V_{OUT}+1V \leq V_{IN} \leq 18V$		0.05	0.2	%/V
$\Delta V_{OUT}/\Delta T_a$	Temperature Coefficient	$V_{IN}=V_{OUT}+1V, I_{OUT}=10mA$ $-40^\circ C < T_a < 85^\circ C$		± 0.7		mV/°C

ME6209A45 ($V_{IN}=V_{OUT}+1.0V$, $C_{IN}=C_L=10\mu F$, $T_a=25^\circ C$, unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Output Voltage	$V_{OUT}(E)$ (Note 2)	$I_{OUT}=10mA$, $V_{IN}=V_{OUT}+1V$	X 0.98	$V_{OUT}(T)$ (Note 1)	X 1.02	V
Input Voltage	V_{IN}				18	V

Maximum Output Current	I_{OUT_max}	$V_{IN}=V_{OUT}+1V$		250		mA
Load Regulation	ΔV_{OUT}	$V_{IN}=V_{OUT}+1V,$ $1mA \leq I_{OUT} \leq 60mA$		15	40	mV
Dropout Voltage (Note 3)	V_{DIF}	$I_{OUT} = 40mA$		70		mV
Supply Current	I_{SS}	$V_{IN}=V_{OUT}+1V$		3	5	μA
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	$I_{OUT} = 10mA$ $V_{OUT}+1V \leq V_{IN} \leq 18V$		0.05	0.2	%/V
$\Delta V_{OUT}/\Delta T_a$	Temperature Coefficient	$V_{IN}=V_{OUT}+1V, I_{OUT} = 10mA$ $-40^\circ C < T_a < 85^\circ C$		± 0.7		mV/ $^\circ C$

ME6209A50 ($V_{IN}=V_{OUT}+1.0V$, $C_{IN}=C_L=10\mu F$, $T_a=25^\circ C$, unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Output Voltage	$V_{OUT(E)}$ (Note 2)	$I_{OUT}=10mA,$ $V_{IN}=V_{OUT}+1V$	X 0.99	$V_{OUT(T)}$ (Note 1)	X 1.01	V
Input Voltage	V_{IN}				18	V
Maximum Output Current	I_{OUT_max}	$V_{IN}=V_{OUT}+1V$		250		mA
Load Regulation	ΔV_{OUT}	$V_{IN}=V_{OUT}+1V,$ $1mA \leq I_{OUT} \leq 60mA$		15	40	mV
Dropout Voltage (Note 3)	V_{DIF}	$I_{OUT} = 40mA$		70		mV
Supply Current	I_{SS}	$V_{IN}=V_{OUT}+1V$		3	5	μA
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	$I_{OUT} = 10mA$ $V_{OUT}+1V \leq V_{IN} \leq 18V$		0.05	0.2	%/V
$\Delta V_{OUT}/\Delta T_a$	Temperature Coefficient	$V_{IN}=V_{OUT}+1V, I_{OUT} = 10mA$ $-40^\circ C < T_a < 85^\circ C$		± 0.7		mV/ $^\circ C$

Note :

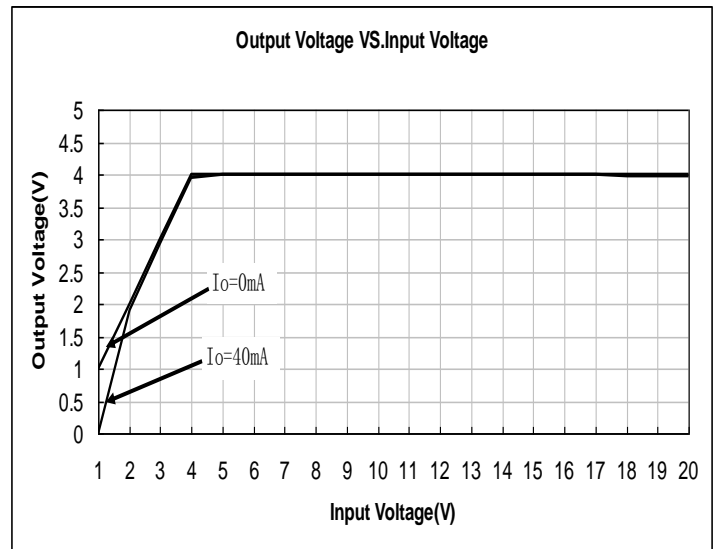
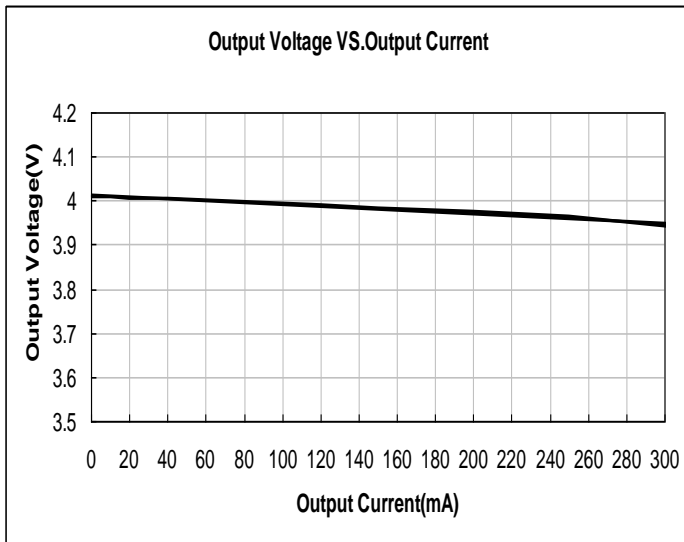
- $V_{OUT(T)}$: Specified Output Voltage
- $V_{OUT(E)}$: Effective Output Voltage (ie. The output voltage when " $V_{OUT(T)}+ 1.0V$ " is provided at the Vin pin while maintaining a certain I_{OUT} value.)
- V_{DIF} : $V_{IN1} - V_{OUT(E)}$
 V_{IN1} : The input voltage when $V_{OUT(E)}$ appears as input voltage is gradually decreased.
 $V_{OUT(E)}$ = A voltage equal to 98% of the output voltage whenever an amply stabilized I_{OUT} and $\{V_{OUT(T)}+ 1.0V\}$ is input.

Precautions

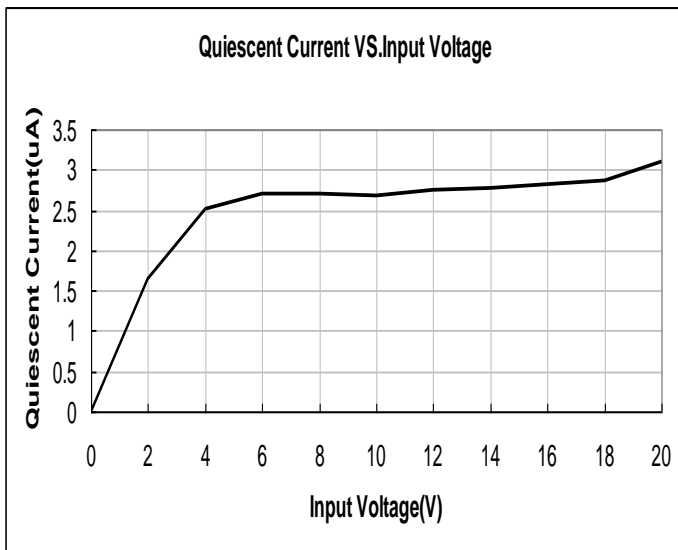
- During the test, if AC/DC power supply and the ceramic chip capacitors collocation are used, there may be serious voltage spike phenomenon instantaneously. When the power supply access to 16V, the voltage is rushed to about 30V instantaneously. Because of exceeding the limit voltage of chip, the chip is damaged. If you string a small resistance of 1 ohm in the input end during the test, the peak phenomenon can be avoided.
- In the test, there is serious burr phenomenon only when the AC/DC power is used with ceramic chip capacitors. But electrolytic capacitors and tantalum capacitance won't appear above phenomenon. Please be sure to pay attention to this point when you use AC/DC power.
- In normal use, when any type of capacitor is used with battery or the supply of fire power, the above phenomenon doesn't occur.

Type Characteristics (ME6209A40)

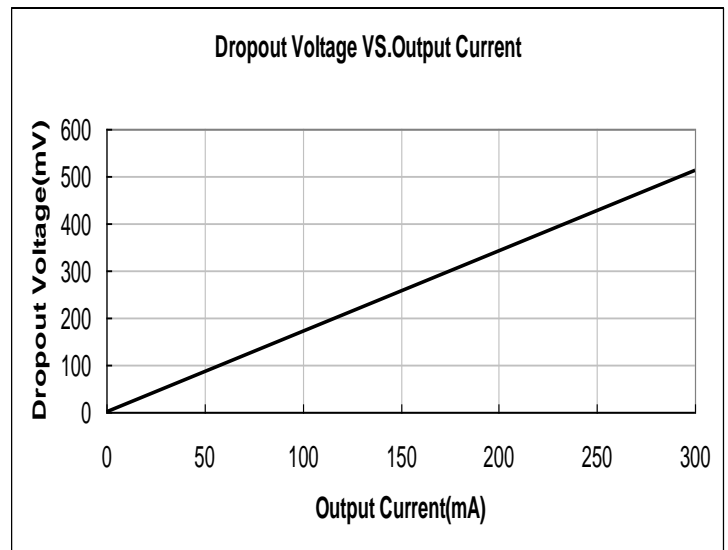
- (1) Output Voltage VS. Output Current ($T_a = 25^\circ\text{C}$) (2) Output Voltage VS. Input Voltage



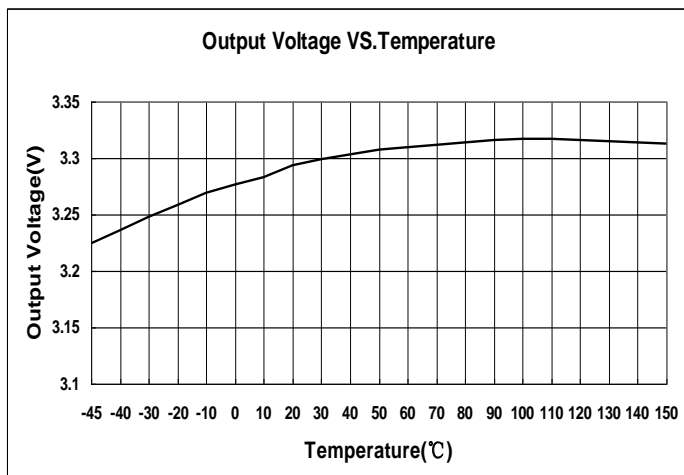
- (3) Quiescent Current VS. Input Voltage



- (4) Dropout Voltage VS. Output Current

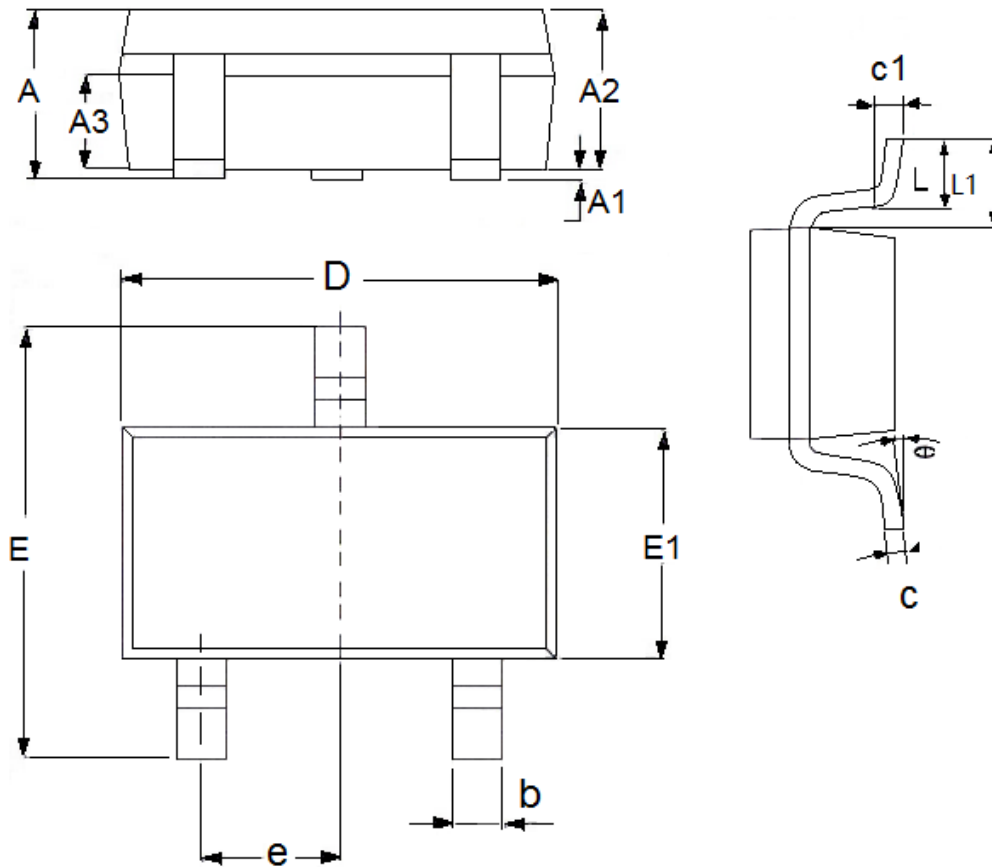


- (5) Output Voltage VS. Temperature (**ME6209A33PG**)



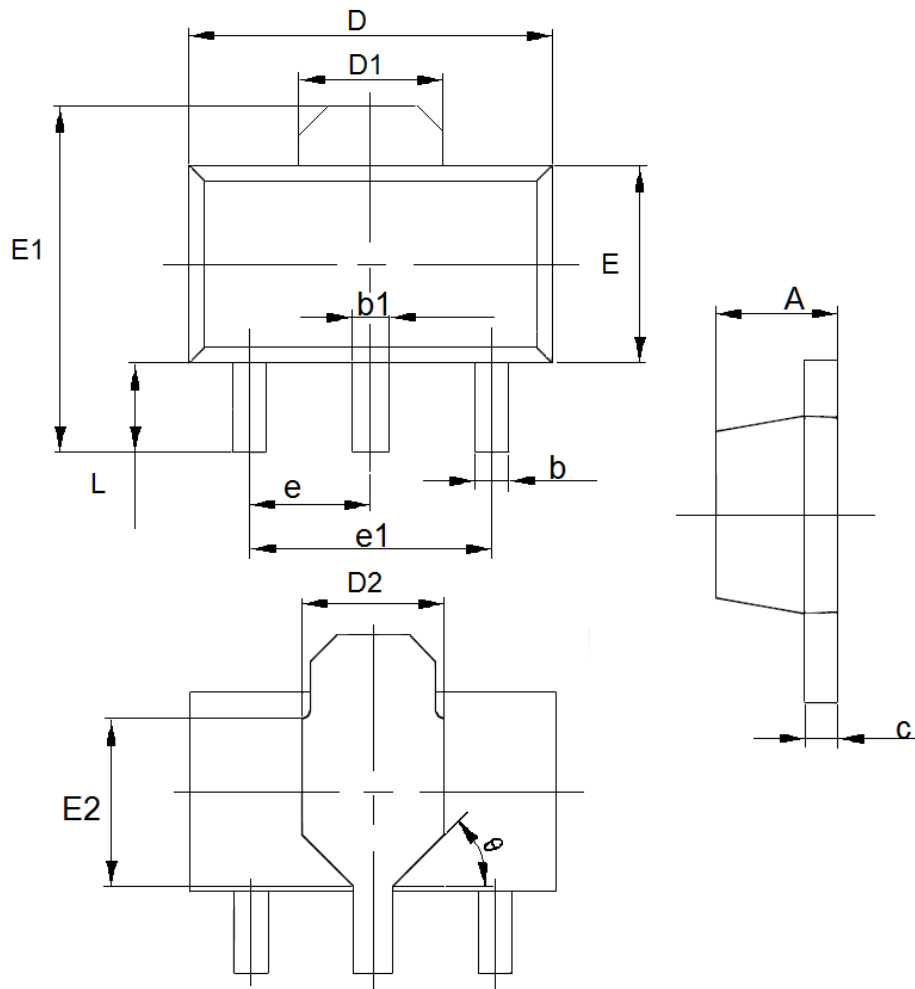
Packaging Information

- Packaging Type: SOT23-3



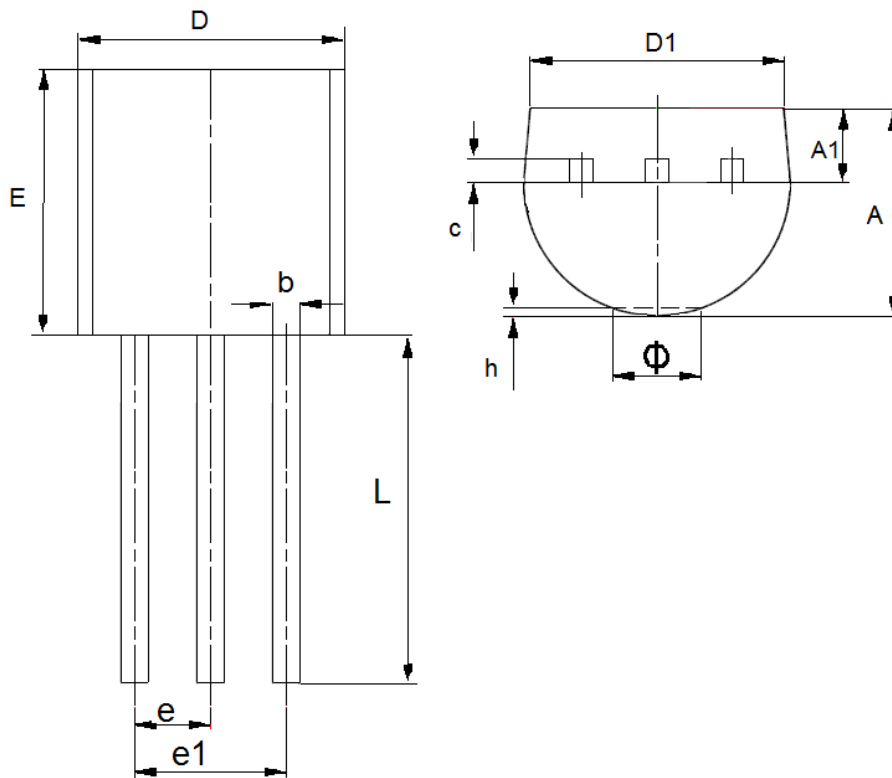
DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	1.05	1.45	0.0413	0.0571
A1	0	0.15	0.0000	0.0059
A2	0.9	1.3	0.0354	0.0512
A3	0.6	0.7	0.0236	0.0276
b	0.25	0.5	0.0098	0.0197
c	0.1	0.25	0.0039	0.0098
D	2.8	3.1	0.1102	0.1220
E	2.6	3.1	0.1023	0.1220
E1	1.5	1.8	0.0591	0.0709
e	0.95(TYP)		0.0374(TYP)	
L	0.25	0.6	0.0098	0.0236
L1	0.59(TYP)		0.0232(TYP)	
θ	0	8°	0.0000	8°
c1	0.2(TYP)		0.0079(TYP)	

● Packaging Type: SOT89-3



DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	1.4	1.6	0.0551	0.0630
b	0.32	0.52	0.0126	0.0205
b1	0.4	0.58	0.0157	0.0228
c	0.35	0.45	0.0138	0.0177
D	4.4	4.6	0.1732	0.1811
D1	1.55(TYP)		0.061(TYP)	
D2	1.75(TYP)		0.0689(TYP)	
e1	3.0(TYP)		0.1181(TYP)	
E	2.3	2.6	0.0906	0.1023
E1	3.94	4.4	0.1551	0.1732
E2	1.9(TYP)		0.0748(TYP)	
e	1.5(TYP)		0.0591(TYP)	
L	0.8	1.2	0.0315	0.0472
θ	45°		45°	

● Packaging Type:TO-92



DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	3.3	3.7	0.1299	0.1457
A1	1.1	1.4	0.0433	0.0551
b	0.38	0.55	0.015	0.0217
c	0.36	0.51	0.0142	0.0201
D	4.3	4.7	0.1693	0.185
D1	3.43	—	0.135	—
E	4.3	4.7	0.1693	0.185
e	1.27TYP		0.05TYP	
e1	2.44	2.64	0.0961	0.1039
L	14.1	14.5	0.5551	0.5709
h	0	0.38	0	0.015
Φ	—	1.6	—	0.063

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