

ME6211



High Speed LDO Regulators, High PSRR, Low noise, ME6211 Series

General Description

The ME6211 series are highly accurate, low noise, CMOS LDO Voltage Regulators. Offering low output noise, high ripple rejection ratio, low dropout and very fast turn-on times, the ME6211 series is ideal for today's cutting edge mobile phone. Internally the ME6211 includes a reference voltage source, error amplifiers, driver transistors, current limiters and phase compensators. The ME6211's current limiters' foldback circuit also operates as a short protect for the output current limiter and. the output pin. The ME6211 series is also fully compatible with low ESR ceramic capacitors, reducing cost and improving output stability. This high level of output stability is maintained even during frequent load fluctuations, due to the excellent transient response performance and high PSRR achieved across a broad range of frequencies. The CE function allows the output of regulator to be turned off, resulting in greatly reduced power consumption.

Package

- 3-pin SOT89-3, SOT23-3
- 5-pin SOT23-5, SOT353
- 6-pin DFN2*2-6L

Features

Maximum Output Current: 500mA
 (V_{IN}=4.3V,V_{OUT}=3.3V)

Dropout Voltage: 100mV@ I_{OUT} =100mA

Operating Voltage Range: 2V∼6.0V

• Highly Accuracy: ±2%

• Low Power Consumption: 40uA (TYP.)

• Standby Current: 0.1uA (TPY.)

High Ripple Rejection: 70dB@1KHz
 (ME6211C33)

Low output noise: 50uVrms

• Line Regulation: 0.05% (TYP.)

Typical Application

- Mobile phones
- Cordless phones, radio communication equipment
- Portable games
- Cameras, Video cameras
- Reference voltage sources
- Battery powered equipment

V14 <u>www.microne.com.cn</u> Page 1 of 20



Typical Application Circuit

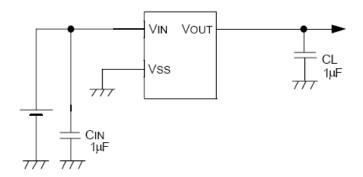


Fig1. ME6211A series

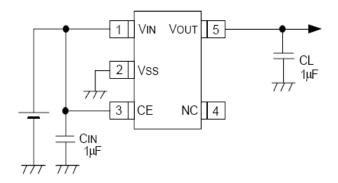


Fig2. ME6211C series

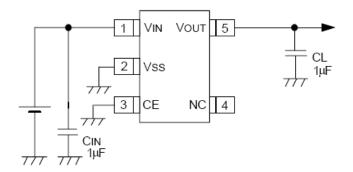
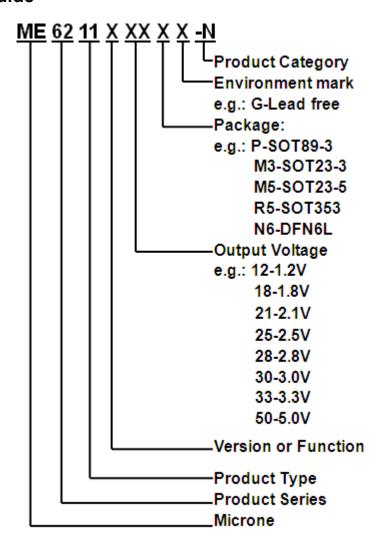


Fig3. ME6211H series

V14 <u>www.microne.com.cn</u> Page 2 of 20



Selection Guide



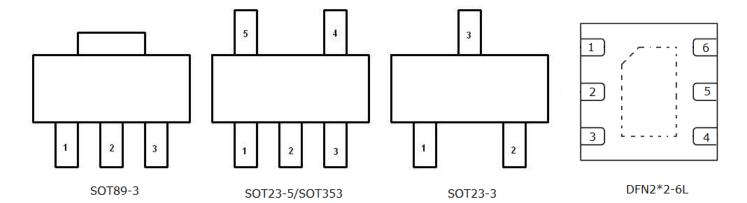
product series	product function	Output voltage	Package
ME6211A12PG	Enable the internal connection of high	1.2V	SOT89-3
ME6211C33M5G	Enable can be set	3.3V	SOT23-5
ME6211H33M5G	Enable connected to a low	3.3V	SOT23-5

Specific voltage and package form pictured above

V14 <u>www.microne.com.cn</u> Page 3 of 20



Pin Configuration



Pin Assignment

ME6211AXXG

	Pin Number			
M3	Р	P1	Pin Name	Functions
SOT23-3	SOT89-3	SOT89-3		
1	1	2	V _{SS}	Ground
2	3	1	V _{OUT}	Output
3	2	3	V _{IN}	Power Input

The difference of printing on the chip between P and P1 is : P: 6211A, P1: 6211A1

ME6211AXXG-DS

Pin Number	Din Nome	Eunotiona
SOT23-3	Pin Name	Functions
1	V _{IN}	Power Input
2	V _{OUT}	Output
3	V _{SS}	Ground

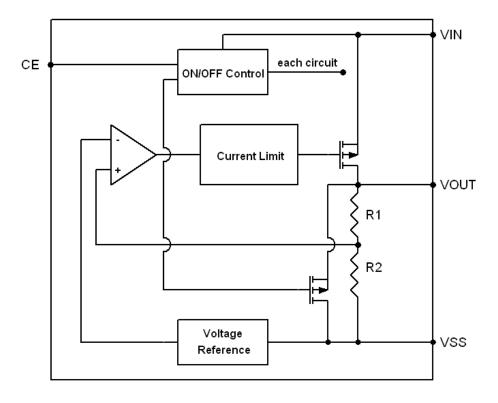
ME6211CXXG/ ME6211HXXG

Pin Numbe	r	Din Name	Functions
SOT23-5/SOT353	DFN2*2-6L	Pin Name	Functions
1	3	V _{IN}	Power Input
2	2	V _{SS}	Ground
3	1	CE	ON / OFF Control
4	5,6	NC	No Connect
5	4	V _{OUT}	Output

V14 <u>www.microne.com.cn</u> Page 4 of 20



Block Diagram



Absolute Maximum Ratings

Parameter		Symbol	Ratings	Units		
Input Voltag	Input Voltage		Input Voltage		6.5	V
Output Curre	nt	I _{OUT}	600	mA		
Output Volta	je	V _{OUT}	Vss-0.3∼V _{IN} +0.3	V		
CE Pin Volta	ge	V _{CE}	Vss-0.3∼V _{IN} +0.3	V		
	SOT23		300			
Dower Dissipation	SOT353		250	ma\A/		
Power Dissipation	DFN2*2-6L	P _D	300	- mW		
	SOT89		500			
Operating Temperatu	ıre Range	T _{OPR}	-40~+150	$^{\circ}$ C		
Storage Temperatur	e Range	T _{STG}	-40~+150	$^{\circ}$ C		

V14 <u>www.microne.com.cn</u> Page 5 of 20



Electrical Characteristics

Parameter	Symbol	Condit	ions	Min.	Тур.	Max.	Units
Output Voltage	V _{OUT} (E) (Note 2)	I _{OUT} =30 V _{IN} = V _{OU}		X 0.98	V _{OUT} (T) (Note 1)	X 1.02	V
Maximum Output Current	I _{OUTMAX}	V _{IN} = V _{OUT} +1V			300		mA
Load Regulation	ΔV_{OUT}	V _{IN} = V _{OUT} +1V , 1mA≤I _{OUT} ≤100mA			8		mV
Dropout Voltage	V_{DIF1}	I _{OUT} =10	00mA		280		mV
(Note 1)	V_{DIF2}	I _{OUT} =20	00mA		500		mV
Supply Current	I _{SS}	V _{IN} = V _{OUT} +1V			40		μA
Stand-by Current	I _{CEL}	V _{CE} =	0V		0.1		μA
Line Regulation	$\Delta V_{OUT} \over \Delta V_{IN} \bullet V_{OUT}$	I _{OUT} =4 V _{OUT} +1V ≤\			0.03		%/V
CE "High" Voltage	VCEH	Start	up	1.0			V
CE "Low" Voltage	VCEL	Shut d	own			0.5	V
Output noise	EN	I _{OUT} =40mA,3	00Hz~50kHz		50		uVrms
Dipple Dejection Date	Denn	$V_{IN} = [V_{OUT}]$ $I_{OUT} = 10 \text{mA},$ 1kHZ			70		٩D
Ripple Rejection Rate	PSRR	+1]V +1Vp-pAC	I _{OUT} =100mA, 10kHZ		62		dB

ME6211C18 ($V_{IN} = V_{OUT} + 1V$, $V_{CE} = V_{IN}$, $C_{IN} = C_L = 1uF$, Ta=25°C, unless otherwise noted)

Parameter	Symbol	Condit	ions	Min.	Тур.	Max.	Units
Output Voltage	V _{OUT} (E) (Note 2)		I _{OUT} =30mA, V _{IN} = V _{OUT} +1V		V _{OUT} (T) (Note 1)	X 1.02	V
Maximum Output Current	I _{OUTMAX}	V _{IN} = V _{OL}	_{JT} +1V		300		mA
Load Regulation	ΔV_OUT	V _{IN} = V _{OUT} +1V , 1mA≤I _{OUT} ≤100mA			9		mV
Dropout Voltage	V_{DIF1}	I _{OUT} =10	00mA		200		mV
(Note 1)	V_{DIF2}	I _{OUT} =20	00mA		400		mV
Supply Current	I _{SS}	V _{IN} = V _{OL}	_{JT} +1V		40		μΑ
Stand-by Current	I _{CEL}	V _{CE} =	0V		0.1		μΑ
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \bullet V_{OUT}}$	I _{OUT} =4 V _{OUT} +1V ≤\			0.05		%/V
CE "High" Voltage	VCEH	Start	up	1.0			V
CE "Low" Voltage	VCEL	Shut d	own			0.5	V
Output noise	EN	I _{OUT} =40mA,3	00Hz~50kHz		50		uVrms
Dinale Dejection Date	Depp	V _{IN} = [V _{OUT}	I _{OUT} =10mA, 1kHZ		70		dВ
Ripple Rejection Rate	PSRR	+1]V+1Vp-pAC	I _{OUT} =100mA, 10kHZ		62		dB



ME6211C25 ($V_{IN}=V_{OUT}+1V$, $V_{CE}=V_{IN}$, $C_{IN}=C_L=1uF$, $Ta=25^{\circ}C$, unless otherwise noted)

Parameter	Symbol	Cond	itions	Min.	Тур.	Max.	Units
Output Voltage	V _{OUT} (E) (Note 2)		30mA, _{OUT} +1V	X 0.98	V _{OUT} (T) (Note 1)	X 1.02	V
Maximum Output Current	I _{OUTMAX}	V _{IN} = V	_{OUT} +1V		400		mA
Load Regulation	ΔV_{OUT}		_{ouT} +1V , _T ≤100mA		9		mV
Dropout Voltage	V_{DIF1}	I _{OUT} =	100mA		110		mV
(Note 1)	V_{DIF2}	I _{OUT} =2	200mA		220		mV
Supply Current	I _{SS}	V _{IN} = V	OUT+1V		40		μA
Stand-by Current	I _{CEL}	V _{CE} :	=0V		0		μA
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$		40mA ≤V _{IN} ≤6.5V		0.04		%/V
CE"High"Voltage	VCEH	Star	rt up	1.0			V
CE "Low" Voltage	VCEL	Shut	down			0.5	V
Output noise	EN	I _{OUT} =40mA,	300Hz~50kHz		50		uVrms
			I _{OUT} =10mA, 1kHZ		70		
Ripple Rejection Rate	PSRR	V _{IN} =[V _{OUT} +1]V I _{OUT} =100mA, +1Vp-pAC 10kHZ			62		dB
		I _{OUT} =200mA, 10kHZ			62		
Short-circuit Current	I _{SHORT}	$V_{IN} = V_{OUT} + 1V,$ = $0V$	$V_{CE} = V_{IN}, \ V_{OUT}$		120		mA

ME6211C28 ($V_{IN} = V_{OLIT} + 1V$, $V_{CF} = V_{IN}$, $C_{IN} = C_I = 1uF$, Ta=25°C, unless otherwise noted)

Parameter	Symbol	Cond	itions	Min.	Тур.	Max.	Units
Output Voltage	V _{OUT} (E) (Note 2)		I_{OUT} =30mA, V_{IN} = V_{OUT} +1 V		V _{OUT} (T) (Note 1)	X 1.02	V
Maximum Output Current	I _{OUTMAX}	V _{IN} = V ₀	_{OUT} +1V		450		mA
Load Regulation	ΔV_{OUT}	V _{IN} = V _{OUT} +1V , 1mA≤I _{OUT} ≤100mA			7		mV
Dropout Voltage	V _{DIF1}	I _{OUT} =	100mA		110		mV
(Note 1)	V _{DIF2}	I _{OUT} =2	200mA		220		mV
Supply Current	I _{SS}	V _{IN} = V ₀	_{OUT} +1V		50		μΑ
Stand-by Current	I _{CEL}	V _{CE} :	=0V		0		μA
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$		40mA ≤V _{IN} ≤6.5V		0.04		%/V
CE"High"Voltage	VCEH	Star	t up	1.0			V
CE "Low" Voltage	VCEL	Shut	down			0.5	V
Output noise	EN	I _{OUT} =40mA,	300Hz~50kHz		50		uVrms
Pinnla Paiaction Pata	VINETVOLIT		I _{OUT} =10mA, 1kHZ		70		dB
Ripple Rejection Rate	PSRR	+1Vp-pAC	I _{OUT} =100mA, 10kHZ		62		UВ



			I _{OUT} =200mA, 10kHZ	62	
Short-circuit Current	I _{SHORT}	$V_{IN} = V_{OUT} + 1V$, = $0V$	$V_{CE} = V_{IN}, V_{OUT}$	120	mA

$\textbf{ME6211C30} \quad \textbf{(V}_{\text{IN}} = \textbf{V}_{\text{OUT}} + \textbf{1V}, \ \ \textbf{V}_{\text{CE}} = \textbf{V}_{\text{IN}}, \ \ \textbf{C}_{\text{IN}} = \textbf{C}_{\text{L}} = \textbf{1} \text{uF}, \ \ \textbf{Ta} = 25^{\text{O}} \text{C}, \text{ unless otherwise noted)}$

Parameter	Symbol	Cond	litions	Min.	Тур.	Max.	Units
Output Voltage	V _{OUT} (E)	I _{OUT} =	30mA,	X 0.98	V _{OUT} (T)	X 1.02	V
Catput Voltage	(Note 2)	$V_{IN} = V$	_{OUT} +1V	7 0.50	(Note 1)	7 1.02	V
Maximum Output Current	I _{OUTMAX}	V _{IN} = V	_{OUT} +1V		500		mA
Load Regulation	4)/	V _{IN} = V ₀	_{OUT} +1V ,		8		mV
Load Regulation	ΔV_{OUT}	1mA≤l _{OL}	1mA≤I _{OUT} ≤100mA		O		IIIV
Dropout Voltage	V_{DIF1}	I _{OUT} =	100mA		100		mV
(Note 1)	V_{DIF2}	I _{OUT} =	200mA		210		mV
Supply Current	I _{SS}	V _{IN} = V	_{OUT} +1V		60		μA
Stand-by Current	I _{CEL}	V_{CE}	=0V		0		μΑ
Line Degulation	ΔV_{OUT}	I _{OUT} =40mA			0.05		%/V
Line Regulation	$\Delta V_{IN} \cdot V_{OUT}$	V _{OUT} +1V	≤V _{IN} ≤6.5V		0.05		70/ V
CE "High" Voltage	VCEH	Sta	rt up	1.0			V
CE "Low" Voltage	VCEL	Shut	down			0.5	V
Output noise	EN	$I_{OUT} = 40 \text{mA},$	300Hz~50kHz		50		uVrms
		\/ - D/	I _{OUT} =10mA, 1kHZ		70		
Ripple Rejection Rate	PSRR	$V_{IN} = [V_{OUT} +1]V$	I _{OUT} =100mA, 10kHZ		62		dB
		+1Vp-pAC	I _{OUT} =200mA, 10kHZ		62		
Short-circuit Current	I _{SHORT}		$V_{CE}=V_{IN}, V_{OUT}$		120		mA

$\textbf{ME6211C33} \quad (V_{\text{IN}} = V_{\text{OUT}} + 1V, \ \ V_{\text{CE}} = V_{\text{IN}}, \ \ C_{\text{IN}} = C_{\text{L}} = 1 \text{uF}, \ \ \text{Ta} = 25^{\circ}\text{C}, \ \text{unless otherwise noted})$

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Output Voltage	V _{OUT} (E) (Note 2)	I _{OUT} =30mA, V _{IN} = V _{OUT} +1V	X 0.98	V _{OUT} (T) (Note 1)	X 1.02	٧
Maximum Output Current	I _{OUTMAX}	V _{IN} = V _{OUT} +1V		500		mA
Load Regulation	ΔV_{OUT}	V _{IN} = V _{OUT} +1V , 1mA≤I _{OUT} ≤100mA		9		mV
Dropout Voltage	V_{DIF1}	I _{OUT} =100mA		120		mV
(Note 1)	V_{DIF2}	I _{OUT} =200mA		260		mV
Supply Current	I _{SS}	V _{IN} = V _{OUT} +1V		60		μΑ
Stand-byCurrent	I _{CEL}	V _{CE} =0V		0.1		μΑ
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \bullet V_{OUT}}$	I _{OUT} =40mA V _{OUT} +1V ≤V _{IN} ≤6.5V		0.05		%/V
CE "High" Voltage	VCEH	Start up	1.0			V



CE "Low" Voltage	VCEL	Shut down			0.5	V
Output noise	EN	I _{OUT} =40mA,30	0Hz~50kHz	50		uVrms
Ripple Rejection Rate			I _{OUT} =10mA ,1kHZ	70		
	PSRR	$V_{IN} = [V_{OUT} + 1]V$ +1Vp-pAC	I _{OUT} =100m A,10kHZ	62		dB
			I _{OUT} =200m A,10kHZ	62		
Short-circuit Current	I _{SHORT}	$V_{IN} = V_{OUT} + 1V$, $V_{CE} = V_{IN}$, $V_{OUT} = 0V$		150		mA

$\textbf{ME6211C50} \; (V_{\text{IN}} = V_{\text{OUT}} + 1V, \;\; V_{\text{CE}} = V_{\text{IN}}, \;\; C_{\text{IN}} = C_{\text{L}} = 1 \text{uF}, \;\; \text{Ta} = 25^{\circ}\text{C}, \; \text{unless otherwise noted})$

Parameter	Symbol	Condit	ions	Min.	Тур.	Max.	Units
Output Voltage	V _{OUT} (E) (Note 2)	I _{OUT} =30 V _{IN} = V _{OU}		X 0.98	V _{OUT} (T) (Note 1)	X 1.02	V
Maximum Output Current	I _{OUTMAX}	V _{IN} = V _{OL}	_{JT} +1V		500		mA
Load Regulation	ΔV_{OUT}	V _{IN} = V _{OU} 1mA≤I _{OUT} ≤			8		mV
Dropout Voltage	V_{DIF1}	I _{OUT} =10	00mA		100		mV
(Note 1)	V_{DIF2}	I _{OUT} =20	00mA		200		mV
Supply Current	I _{SS}	V _{IN} = V _{OU}	_{JT} +1V		40		μA
Stand-by Current	I _{CEL}	V _{CE} =0V			0		μΑ
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	I _{OUT} =40mA V _{OUT} +1V ≤V _{IN} ≤6.5V			0.05		%/V
CE "High" Voltage	VCEH	Start	up	1.0			V
CE "Low" Voltage	VCEL	Shut d	own			0.7	V
Output noise	EN	I _{OUT} =40mA,3	00Hz~50kHz		50		uVrms
			I _{OUT} =10mA, 1kHZ		70		
Ripple Rejection Rate	PSRR	$V_{IN} = [V_{OUT} +1]V +1Vp-pAC$	I _{OUT} =100mA, 10kHZ		62		dB
			I _{OUT} =200mA, 10kHZ		62		
Short-circuit Current	I _{SHORT}	$V_{IN} = V_{OUT} + 1V, V$ $= 0$			110		mA

$\textbf{ME6211A30} \quad \text{(V$_{IN}$= V$_{OUT}$+1V$, C_{IN}$=C_{L}$=1uF$, Ta=25^{O}C, unless otherwise noted)}$

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Output Voltage	V _{OUT} (E) (Note 2)	I _{OUT} =30mA, V _{IN} = V _{OUT} +1V	X 0.98	V _{OUT} (T) (Note 1)	X 1.02	V
Maximum Output Current	I _{OUTMAX}	$V_{IN} = V_{OUT} + 1V$		500		mA
Load Regulation	ΔV_{OUT}	V _{IN} = V _{OUT} +1V , 1mA≤I _{OUT} ≤100mA		8		mV
Dropout Voltage	V_{DIF1}	I _{OUT} =100mA		100		mV



(Note 1)	V _{DIF2}	I _{OUT} =200mA		210	mV
Supply Current	I _{SS}	V _{IN} = V _{OL}	_{JT} +1V	60	μA
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} = 40 \text{mA}$ $V_{OUT} + 1V \le V_{IN} \le 6.5V$		0.05	%/V
Output noise	EN	I _{OUT} =40mA,300Hz~50kHz		50	uVrms
			I _{OUT} =10mA, 1kHZ	70	
Ripple Rejection Rate	PSRR	$V_{IN} = [V_{OUT} +1]V +1Vp-pAC$	I _{OUT} =100mA, 10kHZ	62	dB
			I _{OUT} =200mA, 10kHZ	62	
Short-circuit Current	I _{SHORT}	V_{IN} = V_{OUT} +1 V , V_{CE} = V_{IN} , V_{OUT} =0 V		120	mA

ME6211A33 ($V_{IN} = V_{OUT} + 1V$, $C_{IN} = C_L = 1uF$, Ta=25 $^{\circ}$ C,unless otherwise noted)

ME6211A33 (V _{IN} = V _{OUT} + IV, C _{IN=CL} = IUF, Ia=25 °C, unless otherwise noted)							
Parameter	Symbol	Conditions		Min.	Тур.	Max.	Units
Output Voltage	V _{OUT} (E) (Note 2)	I _{OUT} =30mA, V _{IN} = V _{OUT} +1V		X 0.98	V _{OUT} (T) (Note 1)	X 1.02	V
Maximum Output Current	I _{OUTMAX}	V _{IN} = V _{OL}	_{JT} +1V		500		mA
Load Regulation	ΔV_{OUT}	V _{IN} = V _{OU} 1mA≤I _{OUT} ≤			9		mV
Dropout Voltage	V_{DIF1}	I _{OUT} =10	00mA		120		mV
(Note 1)	V _{DIF2}	I _{OUT} =200mA			260		mV
Supply Current	I _{SS}	V _{IN} = V _{OUT} +1V			60		μA
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	I _{OUT} =4 V _{OUT} +1V ≤\			0.05		%/V
Output noise	EN	I _{OUT} =40mA,3	00Hz~50kHz		50		uVrms
			I _{OUT} =10mA, 1kHZ		70		
Ripple Rejection Rate	PSRR	V _{IN} = [V _{OUT} +1]V +1Vp-pAC	I _{OUT} =100mA, 10kHZ		62		mV μA %/V
			I _{OUT} =200mA, 10kHZ		62		
Short-circuit Current	I _{SHORT}	$V_{IN} = V_{OUT} + 1V_{,,} V$	OUT=0V		150		mA

ME6211A25 ($V_{IN} = V_{OUT} + 1V$, $C_{IN} = C_L = 1uF$, Ta=25°C,unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Output Voltage	V _{OUT} (E) (Note 2)	I _{OUT} =30mA, V _{IN} = V _{OUT} +1V	X 0.98	V _{OUT} (T) (Note 1)	X 1.02	V
Maximum Output Current	I _{OUTMAX}	$V_{IN} = V_{OUT} + 1V$		400		mA
Load Regulation	ΔV_OUT	V _{IN} = V _{OUT} +1V , 1mA≤I _{OUT} ≤100mA		9		mV
Dropout Voltage	V_{DIF1}	I _{OUT} =100mA		80		mV
(Note 1)	V_{DIF2}	I _{OUT} =200mA		180		mV

ME6211

Supply Current	I _{SS}	V _{IN} = V _{OUT} +1V		40	μA
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	I _{OUT} =40mA V _{OUT} +1V ≤V _{IN} ≤6.5V		0.05	%/V
Output noise	EN	I _{OUT} =40mA,300Hz~50kHz		50	uVrms
			I _{OUT} =10mA ,1kHZ	70	
Ripple Rejection Rate	PSRR	$V_{IN} = [V_{OUT} + 1]V$ +1Vp-pAC	I _{OUT} =100m A,10kHZ	62	dB
			I _{OUT} =200m A,10kHZ	62	
Short-circuit Current	I _{SHORT}	V _{IN} = V _{OUT} +1V,, V _O	_{UT} =0V	150	mA

ME6211H15

 $(V_{IN}=V_{OUT}+1V, V_{CE}=GND, C_{IN}=C_{L}=1uF, Ta=25^{O}C, unless otherwise noted)$

Parameter	Symbol	Cond	itions	Min.	Тур.	Max.	Units
Output Voltage	V _{OUT} (E) (Note 2)	I_{OUT} =30mA, V_{IN} = V_{OUT} +1 V		X 0.98	V _{OUT} (T) (Note 1)	X 1.02	V
Maximum Output Current	I _{OUTMAX}	V _{IN} = V	_{OUT} +1V		300		mA
Load Regulation	ΔV_{OUT}	V _{IN} = V _{OUT} +1V , 1mA≤I _{OUT} ≤100mA			9		mV
Dropout Voltage	V_{DIF1}	I _{OUT} =100mA			200		mV
(Note 1)	V _{DIF2}	I _{OUT} =200mA			400		mV
Supply Current	I _{SS}	V _{IN} = V	_{OUT} +1V		40		μΑ
Stand-by Current	I _{CEL}	V _{CE}	=V _{IN}		0.1		μΑ
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$		40mA ≤V _{IN} ≤6.5V		0.05		%/V
CE "High" Voltage	VCEH	Shut	down	1.0			V
CE "Low" Voltage	VCEL	Star	rt up			0.4	V
Output noise	EN	I _{OUT} =40mA,300Hz~50kHz			50		uVrms
Ripple Rejection Rate	PSRR	V _{IN} = [V _{OUT} +1]V+1Vp-pA C	I _{OUT} =10mA,1k HZ		70		dB

Note:

- 1. V_{OUT} (T): Specified Output Voltage
- 2.V_{OUT} (E) : Effective Output Voltage (le. The output voltage when "V_{OUT} (T)+1.0V" is provided at the Vin pin while maintaining a certain lout value.)
- $3.V_{DIF}$: $V_{IN1} V_{OUT}$ (E)

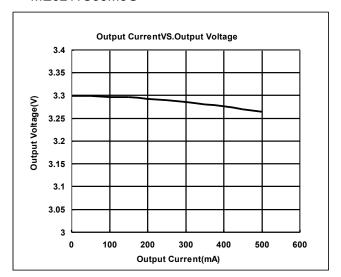
 V_{IN1} : The input voltage when $V_{\text{OUT}}(E)$ ' appears as input voltage is gradually decreased.

 V_{OUT} (E)'=A voltage equal to 98% of the output voltage whenever an amply stabilized lout $\{V_{\text{OUT}}(T)+1.0V\}$ is input.

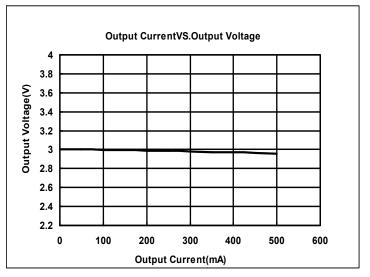


Type Characteristics

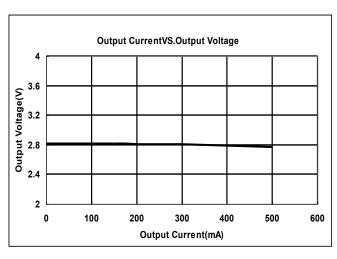
(1) Output CurrentVS.Output Voltage (VIN=Vout+1, **Ta = 25** °C)
ME6211C33M5G ME6211



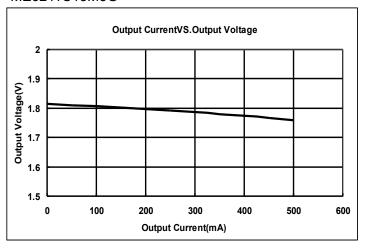
ME6211C30M5G



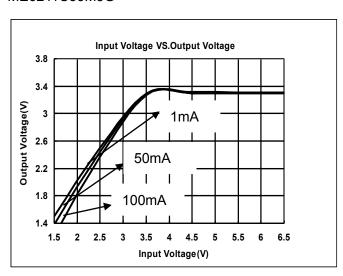
ME6211C28M5G



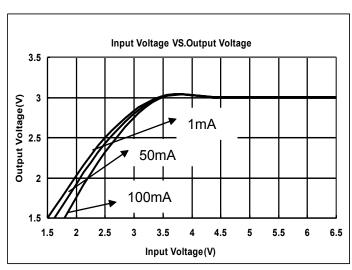
ME6211C18M5G



(2) Input VoltageVS.Output Voltage (**Ta = 25 °C**)
ME6211C33M5G



ME6211C30M5G

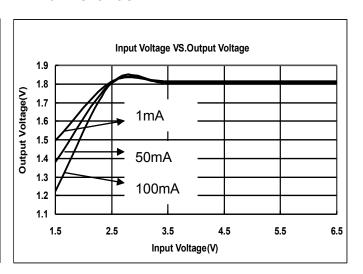




ME6211C28M5G

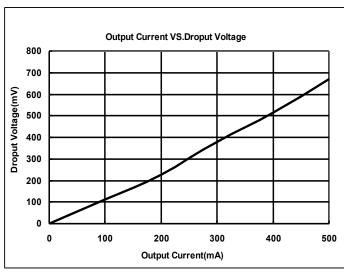
Input Voltage VS.Output Voltage 3.2 (2.8 98 98 2.4 1mA 50mA 1.2 1.5 2.5 3.5 4.5 5.5 6.5 Input Voltage(V)

ME6211C18M5G

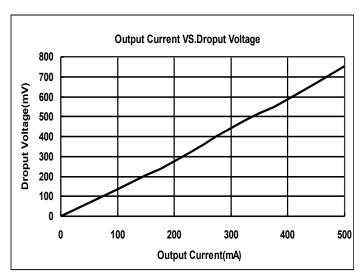


(3) Output Current VS.Droput Voltage (VIN=Vout+1V,**Ta = 25** °C)

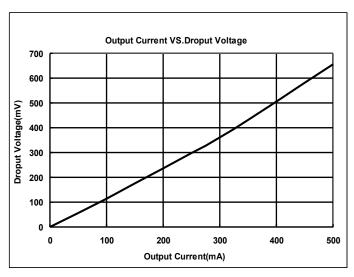
ME6211C33M5G



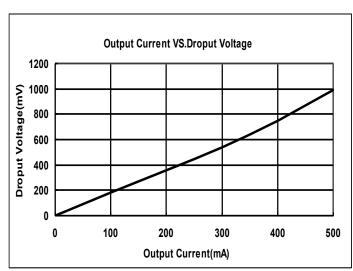
ME6211C30M5G



ME6211C28M5G



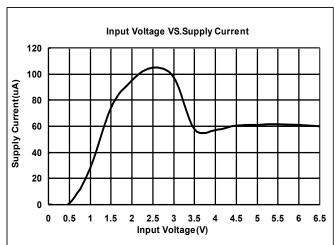
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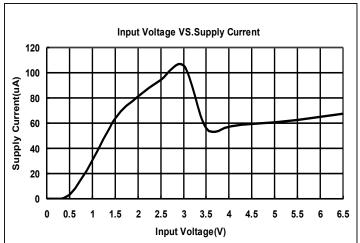


(4) Input Voltage VS. Supply Current (**Ta = 25 °C**)

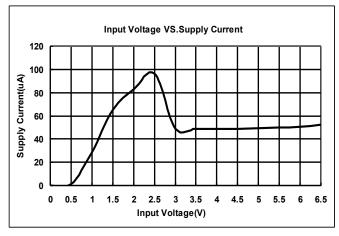
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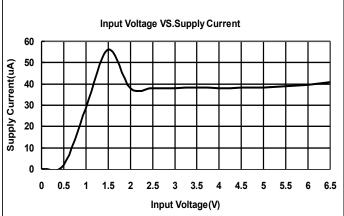
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ME6211C28M5G



ME6211C18M5G

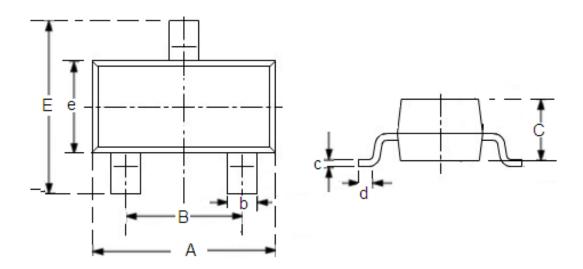


Page 15 of 20



Packaging Information

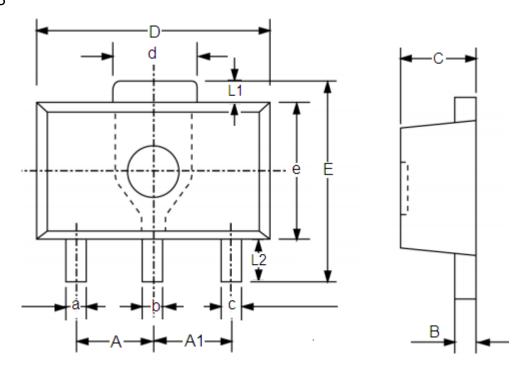
• SOT23-3



DIM	Millimeters		Inches		
DIM	Min	Max	Min	Max	
А	2.7	3.1	0.1063	0.122	
В	1.7	2.1	0.0669	0.0827	
b	0.35	0.5	0.0138	0.0197	
С	1.0	1.2	0.0394	0.0472	
С	0.1	0.25	0.0039	0.0098	
d	0.2	-	0.0079	-	
Е	2.6	3.0	0.1023	0.1181	
е	1.5	1.8	0.059	0.0708	



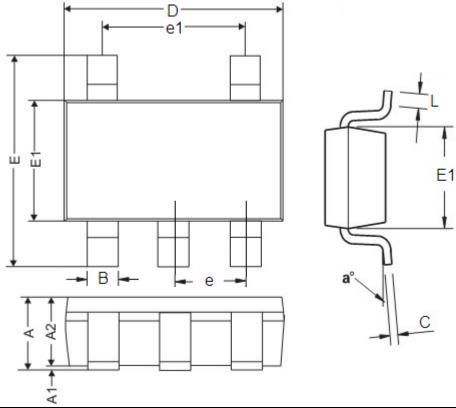
● SOT89-3



DIM	Millir	neters	Ir	nches
DIM	Min	Max	Min	Max
А	1.4	1.6	0.0551	0.0630
A1	1.4	1.6	0.0551	0.0630
а	0.36	0.48	0.0142	0.0189
b	0.41	0.53	0.0161	0.0209
С	0.36	0.48	0.0142	0.0189
d	1.4	1.75	0.0551	0.0689
В	0.38	0.43	0.015	0.0169
С	1.4	1.6	0.0551	0.0630
D	4.4	4.6	0.1732	0.181
E	-	4.25	-	0.1673
е	2.4	2.6	0.0945	0.1023
L1	0.4	-	0.0157	-
L2	0.8	-	0.0315	-



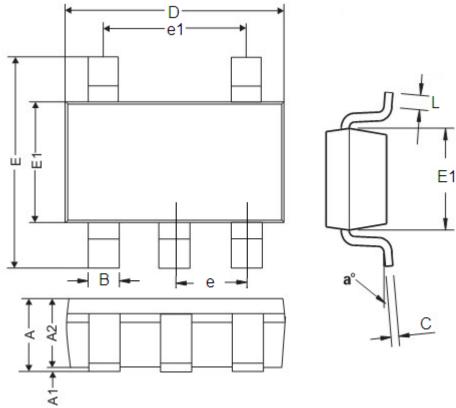
● SOT23-5



DIM	Millin	neters	Inche	es
DIM	Min	Max	Min	Max
А	0.9	1.45	0.0354	0.0570
A1	0	0.15	0	0.0059
A2	0.9	1.3	0.0354	0.0511
В	0.2	0.5	0.0078	0.0196
С	0.09	0.26	0.0035	0.0102
D	2.7	3.10	0.1062	0.1220
E	2.2	3.2	0.0866	0.1181
E1	1.30	1.80	0.0511	0.0708
е	0.95	REF	0.0374F	REF
e1	1.90	1.90REF		REF
L	0.10	0.60	0.0039	0.0236
a ⁰	00	30°	00	30 ⁰



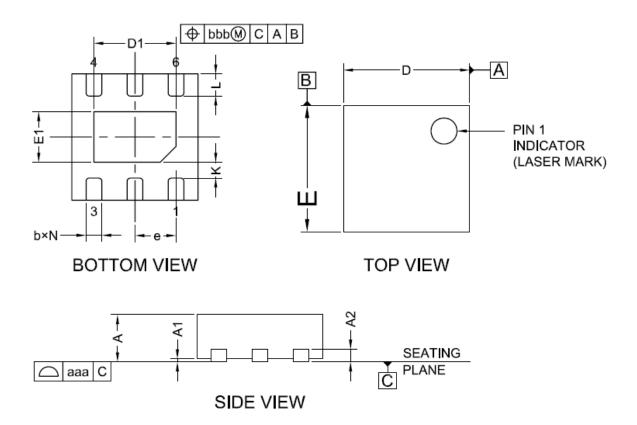
● SOT353



DIM	Millin	neters	Inch	es
DIM	Min	Max	Min	Max
Α	0.9	1.1	0.035	0.043
A1	0.0	0.10	0.00	0.004
A2	0.9	1.0	0.035	0.039
В	0.15	0.35	0.006	0.014
С	0.08	0.15	0.003	0.006
D	2.0	2.2	0.079	0.087
E	2.15	2.45	0.085	0.096
E1	1.15	1.35	0.045	0.096
е	0.65	REF	0.026 I	REF
e1	1.20	1.4	0.047	0.055
L	0.26	0.46	0.01	0.018
a ⁰	00	8°	00	8 ⁰



DFN2*2-6L



DIM	Dimension (mm)		
	Min	Тур	Max
А	0.70	0.75	0.80
A1	0.00	0.02	0.05
A2	0.203 REF		
b	0.20	0.25	0.30
D	1.95	2.00	2.05
D1	1.20	1.30	1.40
E	1.95	2.00	2.05
E1	0.70	0.80	0.90
е	0.65 REF		
L	0.30	0.35	0.40
K	0.20 min		
N	6		
aaa	0.08		
bbb	0.10		

V14 <u>www.microne.com.cn</u> Page 19 of 20



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