

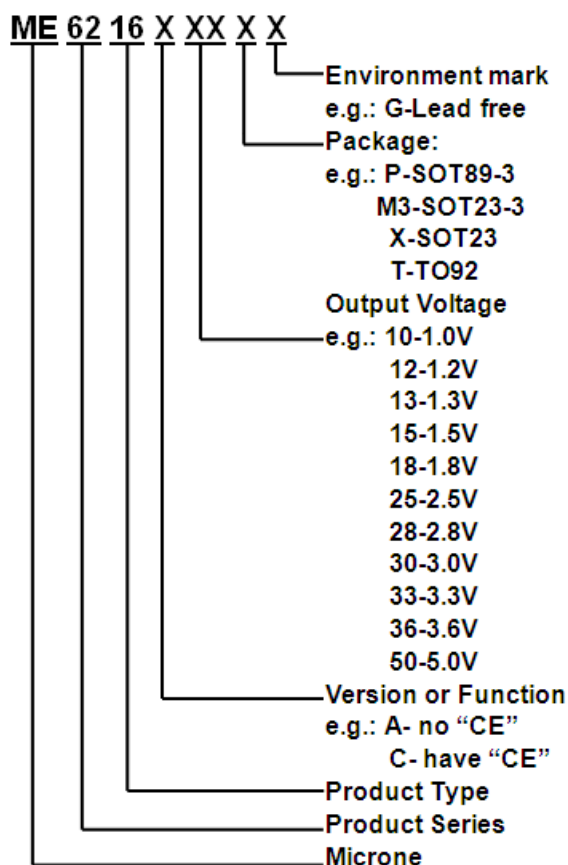
## Low power consumption, Low ESR Cap. Compatible ME6216 Series

### General Description

ME6216 series are highly precise, low power consumption, positive voltage regulators manufactured using CMOS technologies. The series provides large currents with a significantly small dropout voltage.

The series is compatible with low ESR ceramic capacitors. The current limiter's foldback circuit also operates as a short protect for the output current limiter and the output pin.

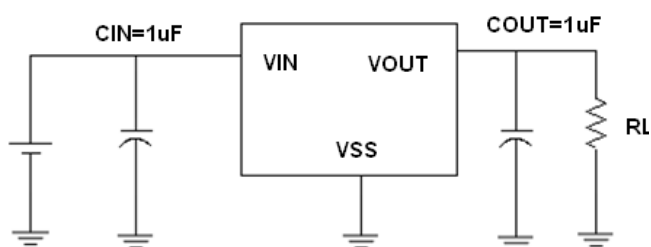
### Selection Guide



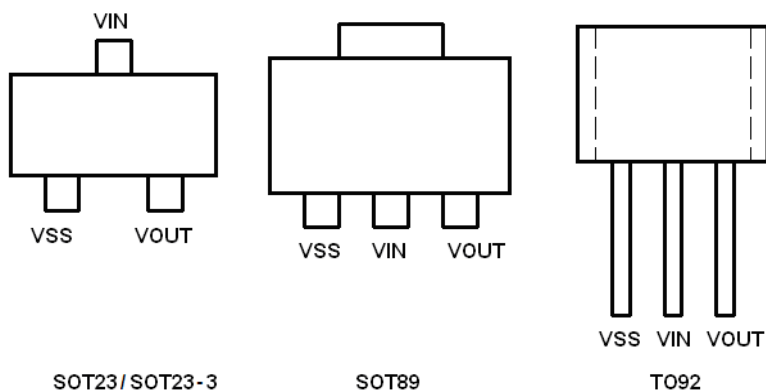
### Features

- Highly Accurate:  $\pm 1\%$
- Output voltage range: 1.0V~5.0V
- Low power consumption: 5 $\mu$ A(TYP.)
- Large output current: 300mA ( $V_{IN}=4.3V, V_{OUT}=3.3V$ )
- Input voltage: up to 6 V
- Dropout voltage:  
0.11V at 100mA and 0.22V at 200mA  
( $V_{IN}=4.3V, V_{OUT}=3.3V$ )
- Excellent Input Stability
- Be available to regulator and reference voltage
- Packages: SOT23-3, SOT89-3, SOT23, TO-92
- Communication tools
- Mobile phones
- Portable games
- Portable AV systems
- Cameras, Video systems
- Reference voltage sources

### Typical Application Circuit



## Pin Configuration



## Pin Assignment

### ME6216Axx

Pin				Name	Function
M3	P	X	T		
SOT23-3	SOT89-3	SOT23	TO-92		
1	1	1	1	VSS	Ground
2	3	2	3	VOUT	Output
3	2	3	2	VIN	Input

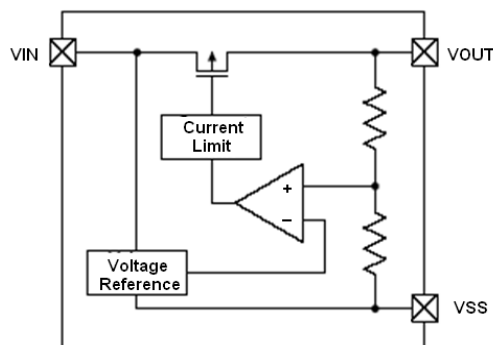
### ME6216Bxx

Pin	Name	Function
P		
SOT89-3		
2	VSS	Ground
1	VOUT	Output
3	VIN	Input

## Absolute Maximum Ratings

Parameter	Symbol	Description	Units
Input Voltage	$V_{IN}$	6.5	V
Output Current	$I_{OUT}$	500	mA
Output Voltage	$V_{OUT}$	$V_{SS}-0.3 \sim V_{OUT}+0.3$	V
Power Dissipation	SOT23-3	$P_d$	300 mW
	SOT89-3	$P_d$	500 mW
	SOT23	$P_d$	300 mW
	TO-92	$P_d$	500 mW
Operating Ambient Temperature	$T_{Opr}$	-25 ~ +85	°C
Storage Temperature	$T_{stg}$	-40 ~ +125	°C

## Block Diagram



## Electrical Characteristics

### ME6216-1.0V

( $V_{IN}=V_{OUT}+1V$ ,  $C_{IN}=C_{OUT}=1\mu F$ ,  $T_a=25^{\circ}C$  Unless otherwise stated)

PARAMETER	SYMBOL	CONDITION	MIX	TYP	MAX	UNIT
Output Voltage	$V_{OUT(E)}$ (Note 2)	$I_{OUT}=10mA$ , $V_{IN}=V_{OUT}+1V$	$V_{OUT(T)}$ -0.015	$V_{OUT(T)}$ (Note 1)	$V_{OUT(T)}$ +0.015	V
Input Voltage	$V_{IN}$				6	V
Maximum Output Current	$I_{OUT} (max)$	$V_{IN}= V_{OUT} +1V$		200	250	mA
Load Regulation	$\Delta V_{OUT}$	$V_{IN}= V_{OUT} +1V$ $1mA \leq I_{OUT} \leq 100mA$		6	10	mV
Dropout Voltage (Note 3)	$V_{dif1}$	$I_{OUT} =50mA$		280	300	mV
	$V_{dif2}$	$I_{OUT} =80mA$		390	410	mV
Supply Current	$I_{SS}$	$V_{IN}= V_{OUT} +1V$		5	8	$\mu A$
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} =10mA$ $V_{out}+1V \leq V_{IN} \leq 6V$		0.05	0.2	%/V
Power Supply Ripple Rejection Ratio	PSRR	$V_{IN} = [V_{OUT} +1]V$ $+1Vp-pAC$ $I_{OUT} =10mA, f=1kHz$		65		dB
Short Circuit Current	$I_{short}$	$V_{IN} = V_{OUT} (T)+1V$ $V_{OUT} =VSS$		50	80	mA
Over Current Protection	$I_{limit}$	$V_{IN}= V_{OUT} +1V$		310		mA

### ME6216-1.2V

( $V_{IN}=V_{OUT}+1V$ ,  $C_{IN}=C_{OUT}=1\mu F$ ,  $T_a=25^{\circ}C$  Unless otherwise stated)

PARAMETER	SYMBOL	CONDITION	MIX	TYP	MAX	UNIT
Output Voltage	$V_{OUT(E)}$ (Note 2)	$I_{OUT}=10mA$ , $V_{IN}=V_{OUT}+1V$	$V_{OUT(T)}$ -0.015	$V_{OUT(T)}$ (Note 1)	$V_{OUT(T)}$ +0.015	V
Input Voltage	$V_{IN}$				6	V
Maximum Output Current	$I_{OUT} (max)$	$V_{IN}= V_{OUT} +1V$		250	300	mA
Load Regulation	$\Delta V_{OUT}$	$V_{IN}= V_{OUT} +1V$		6	10	mV

		$1\text{mA} \leq I_{\text{OUT}} \leq 100\text{mA}$				
Dropout Voltage (Note 3)	$V_{\text{dif1}}$	$I_{\text{OUT}} = 50\text{mA}$		150	170	mV
	$V_{\text{dif2}}$	$I_{\text{OUT}} = 80\text{mA}$		220	240	mV
Supply Current	$I_{\text{SS}}$	$V_{\text{IN}} = V_{\text{OUT}} + 1\text{V}$		5	8	$\mu\text{A}$
Line Regulations	$\frac{\Delta V_{\text{OUT}}}{\Delta V_{\text{IN}} \cdot V_{\text{OUT}}}$	$I_{\text{OUT}} = 10\text{mA}$ $V_{\text{OUT}} + 1\text{V} \leq V_{\text{IN}} \leq 6\text{V}$		0.05	0.2	%/V
Power Supply Ripple Rejection Ratio	PSRR	$V_{\text{IN}} = [V_{\text{OUT}} + 1]\text{V}$ $+1\text{Vp-pAC}$ $I_{\text{OUT}} = 10\text{mA}, f = 1\text{kHz}$		65		dB
Short Circuit Current	$I_{\text{short}}$	$V_{\text{IN}} = V_{\text{OUT}}(\text{T}) + 1\text{V}$ $V_{\text{OUT}} = \text{VSS}$		50	80	mA
Over Current Protection	$I_{\text{limit}}$	$V_{\text{IN}} = V_{\text{OUT}} + 1\text{V}$		310		mA

### ME6216-1.3V

( $V_{\text{IN}} = V_{\text{OUT}} + 1\text{V}, C_{\text{IN}} = C_{\text{OUT}} = 1\mu\text{F}, T_{\text{a}} = 25^{\circ}\text{C}$  Unless otherwise stated)

PARAMETER	SYMBOL	CONDITION	MIX	TYP	MAX	UNIT
Output Voltage	$V_{\text{OUT}}(\text{E})$ (Note 2)	$I_{\text{OUT}} = 10\text{mA},$ $V_{\text{IN}} = V_{\text{OUT}} + 1\text{V}$	$V_{\text{OUT}}(\text{T})$ -0.015	$V_{\text{OUT}}(\text{T})$ (Note 1)	$V_{\text{OUT}}(\text{T})$ +0.015	V
Input Voltage	$V_{\text{IN}}$				6	V
Maximum Output Current	$I_{\text{OUT}}(\text{max})$	$V_{\text{IN}} = V_{\text{OUT}} + 1\text{V}$		250	300	mA
Load Regulation	$\Delta V_{\text{OUT}}$	$V_{\text{IN}} = V_{\text{OUT}} + 1\text{V}$ $1\text{mA} \leq I_{\text{OUT}} \leq 100\text{mA}$		6	10	mV
Dropout Voltage (Note 3)	$V_{\text{dif1}}$	$I_{\text{OUT}} = 50\text{mA}$		160	180	mV
	$V_{\text{dif2}}$	$I_{\text{OUT}} = 80\text{mA}$		250	270	mV
Supply Current	$I_{\text{SS}}$	$V_{\text{IN}} = V_{\text{OUT}} + 1\text{V}$		5	8	$\mu\text{A}$
Line Regulations	$\frac{\Delta V_{\text{OUT}}}{\Delta V_{\text{IN}} \cdot V_{\text{OUT}}}$	$I_{\text{OUT}} = 10\text{mA}$ $V_{\text{OUT}} + 1\text{V} \leq V_{\text{IN}} \leq 6\text{V}$		0.05	0.2	%/V
Power Supply Ripple Rejection Ratio	PSRR	$V_{\text{IN}} = [V_{\text{OUT}} + 1]\text{V}$ $+1\text{Vp-pAC}$ $I_{\text{OUT}} = 10\text{mA}, f = 1\text{kHz}$		65		dB
Short Circuit Current	$I_{\text{short}}$	$V_{\text{IN}} = V_{\text{OUT}}(\text{T}) + 1\text{V}$ $V_{\text{OUT}} = \text{VSS}$		50	80	mA
Over Current Protection	$I_{\text{limit}}$	$V_{\text{IN}} = V_{\text{OUT}} + 1\text{V}$		340		mA

### ME6216-1.5V

( $V_{\text{IN}} = V_{\text{OUT}} + 1\text{V}, C_{\text{IN}} = C_{\text{OUT}} = 1\mu\text{F}, T_{\text{a}} = 25^{\circ}\text{C}$  Unless otherwise stated)

PARAMETER	SYMBOL	CONDITION	MIX	TYP	MAX	UNIT
Output Voltage	$V_{\text{OUT}}(\text{E})$ (Note 2)	$I_{\text{OUT}} = 10\text{mA},$ $V_{\text{IN}} = V_{\text{OUT}} + 1\text{V}$	X 0.99	$V_{\text{OUT}}(\text{T})$ (Note 1)	X 1.01	V

Input Voltage	$V_{IN}$				6	V
Maximum Output Current	$I_{OUT} (max)$	$V_{IN} = V_{OUT} + 1V$		300	350	mA
Load Regulation	$\Delta V_{OUT}$	$V_{IN} = V_{OUT} + 1V$ $1mA \leq I_{OUT} \leq 100mA$		5	10	mV
Dropout Voltage (Note 3)	$V_{dif1}$	$I_{OUT} = 50mA$		120	140	mV
	$V_{dif2}$	$I_{OUT} = 80mA$		190	210	mV
Supply Current	$I_{SS}$	$V_{IN} = V_{OUT} + 1V$		5	8	$\mu A$
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} = 10mA$ $V_{out} + 1V \leq V_{IN} \leq 6V$		0.05	0.2	%/V
Power Supply Ripple Rejection Ratio	PSRR	$V_{IN} = [V_{OUT} + 1]V$ $+1Vp-pAC$ $I_{OUT} = 10mA, f = 1kHz$		65		dB
Short Circuit Current	$I_{short}$	$V_{IN} = V_{OUT} (T) + 1V$ $V_{OUT} = VSS$		50	80	mA
Over Current Protection	$I_{limit}$	$V_{IN} = V_{OUT} + 1V$		400		mA

## ME6216-1.8V

( $V_{IN} = V_{OUT} + 1V, C_{IN} = C_{OUT} = 1\mu F, T_a = 25^{\circ}C$  Unless otherwise stated)

PARAMETER	SYMBOL	CONDITION	MIX	TYP	MAX	UNIT
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	$V_{IN}$				6	V
Maximum Output Current	$I_{OUT} (max)$	$V_{IN} = V_{OUT} + 1V$		300	350	mA
Load Regulation	$\Delta V_{OUT}$	$V_{IN} = V_{OUT} + 1V$ $1mA \leq I_{OUT} \leq 100mA$		5	10	mV
Dropout Voltage (Note 3)	$V_{dif1}$	$I_{OUT} = 50mA$		100	120	mV
	$V_{dif2}$	$I_{OUT} = 80mA$		150	170	mV
Supply Current	$I_{SS}$	$V_{IN} = V_{OUT} + 1V$		5	8	$\mu A$
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} = 10mA$ $V_{out} + 1V \leq V_{IN} \leq 6V$		0.05	0.2	%/V
Power Supply Ripple Rejection Ratio	PSRR	$V_{IN} = [V_{OUT} + 1]V$ $+1Vp-pAC$ $I_{OUT} = 10mA, f = 1kHz$		65		dB
Short Circuit Current	$I_{short}$	$V_{IN} = V_{OUT} (T) + 1V$ $V_{OUT} = VSS$		40	80	mA
Over Current Protection	$I_{limit}$	$V_{IN} = V_{OUT} + 1V$		420		mA

## ME6216-2.5V

( $V_{IN}=V_{OUT}+1V, C_{IN}=C_{OUT}=1\mu F, T_a=25^{\circ}C$  Unless otherwise stated)

PARAMETER	SYMBOL	CONDITION	MIX	TYP	MAX	UNIT
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	$V_{IN}$				6	V
Maximum Output Current	$I_{OUT} (max)$	$V_{IN}= V_{OUT} +1V$		260	300	mA
Load Regulation	$\Delta V_{OUT}$	$V_{IN}= V_{OUT} +1V$ $1mA \leq I_{OUT} \leq 100mA$		9	18	mV
Dropout Voltage (Note 3)	$V_{dif1}$	$I_{OUT} =80mA$		100	120	mV
	$V_{dif2}$	$I_{OUT} =200mA$		260	280	mV
Supply Current	$I_{SS}$	$V_{IN}= V_{OUT} +1V$		5	8	$\mu A$
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} =10mA$ $V_{out}+1V \leq V_{IN} \leq 6V$		0.05	0.2	%/V
Power Supply Ripple Rejection Ratio	PSRR	$V_{IN} = [V_{OUT} +1]V$ $+1Vp-pAC$ $I_{OUT} =10mA, f=1kHz$		65		dB
Short Circuit Current	$I_{short}$	$V_{IN} = V_{OUT} (T)+1V$ $V_{OUT} =VSS$		40	80	mA
Over Current Protection	$I_{limit}$	$V_{IN}= V_{OUT} +1V$		420		mA

## ME6216-3.0V

( $V_{IN}=V_{OUT}+1V, C_{IN}=C_{OUT}=1\mu F, T_a=25^{\circ}C$  Unless otherwise stated)

PARAMETER	SYMBOL	CONDITION	MIX	TYP	MAX	UNIT
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	$V_{IN}$				6	V
Maximum Output Current	$I_{OUT} (max)$	$V_{IN}= V_{OUT} +1V$		300	350	mA
Load Regulation	$\Delta V_{OUT}$	$V_{IN}= V_{OUT} +1V$ $1mA \leq I_{OUT} \leq 100mA$		10	18	mV
Dropout Voltage (Note 3)	$V_{dif1}$	$I_{OUT} =80mA$		90	110	mV
	$V_{dif2}$	$I_{OUT} =200mA$		220	240	mV
Supply Current	$I_{SS}$	$V_{IN}= V_{OUT} +1V$		5	8	$\mu A$
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} =10mA$ $V_{out}+1V \leq V_{IN} \leq 6V$		0.05	0.2	%/V
Power Supply Ripple Rejection Ratio	PSRR	$V_{IN} = [V_{OUT} +1]V$ $+1Vp-pAC$ $I_{OUT} =10mA, f=1kHz$		65		dB

Short Circuit Current	$I_{short}$	$V_{IN} = V_{OUT}(T)+1V$ $V_{OUT} = V_{SS}$		40	80	mA
Over Current Protection	$I_{limit}$	$V_{IN} = V_{OUT} + 1V$		450		mA

### ME6216-3.3V

( $V_{IN} = V_{OUT} + 1V, C_{IN} = C_{OUT} = 1\mu F, T_a = 25^\circ C$  Unless otherwise stated)

PARAMETER	SYMBOL	CONDITION	MIX	TYP	MAX	UNIT
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	$V_{IN}$				6	V
Maximum Output Current	$I_{OUT} (max)$	$V_{IN} = V_{OUT} + 1V$		300	350	mA
Load Regulation	$\Delta V_{OUT}$	$V_{IN} = V_{OUT} + 1V$ $1mA \leq I_{OUT} \leq 100mA$		10	18	mV
Dropout Voltage (Note 3)	$V_{dif1}$	$I_{OUT} = 80mA$		80	100	mV
	$V_{dif2}$	$I_{OUT} = 200mA$		220	240	mV
Supply Current	$I_{SS}$	$V_{IN} = V_{OUT} + 1V$		6	8	$\mu A$
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} = 10mA$ $V_{OUT} + 1V \leq V_{IN} \leq 6V$		0.07	0.2	%/V
Power Supply Ripple Rejection Ratio	PSRR	$V_{IN} = [V_{OUT} + 1]V$ $+1V_{p-pAC}$ $I_{OUT} = 10mA, f = 1kHz$		65		dB
Short Circuit Current	$I_{short}$	$V_{IN} = V_{OUT}(T)+1V$ $V_{OUT} = V_{SS}$		40	80	mA
Over Current Protection	$I_{limit}$	$V_{IN} = V_{OUT} + 1V$		450		mA

### ME6216-5.0V

( $V_{IN} = V_{OUT} + 1V, C_{IN} = C_{OUT} = 1\mu F, T_a = 25^\circ C$  Unless otherwise stated)

PARAMETER	SYMBOL	CONDITION	MIX	TYP	MAX	UNIT
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	$V_{IN}$				6	V
Maximum Output Current	$I_{OUT} (max)$	$V_{IN} = V_{OUT} + 1V$		300	400	mA
Load Regulation	$\Delta V_{OUT}$	$V_{IN} = V_{OUT} + 1V$ $1mA \leq I_{OUT} \leq 100mA$		10	18	mV
Dropout Voltage (Note 3)	$V_{dif1}$	$I_{OUT} = 80mA$		65	80	mV
	$V_{dif2}$	$I_{OUT} = 200mA$		160	180	mV
Supply Current	$I_{SS}$	$V_{IN} = V_{OUT} + 1V$		5	8	$\mu A$
Line Regulations	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} = 10mA$ $V_{OUT} + 1V \leq V_{IN} \leq 6V$		0.05	0.2	%/V

Power Supply Ripple Rejection Ratio	PSRR	$V_{IN} = [V_{OUT} + 1]V$ $+1V_{p-pAC}$ $I_{OUT} = 10mA, f = 1kHz$		65		dB
Short Circuit Current	$I_{short}$	$V_{IN} = V_{OUT(T)} + 1V$ $V_{OUT} = VSS$		40	80	mA
Over Current Protection	$I_{limit}$	$V_{IN} = V_{OUT} + 1V$		550		mA

**Note :**

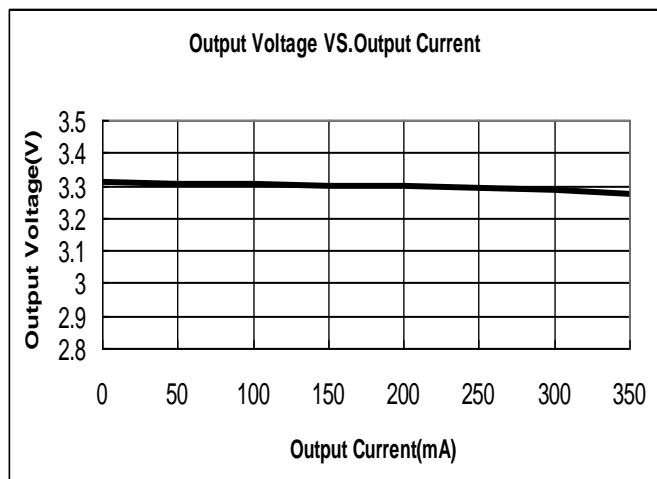
1.  $V_{OUT(T)}$  : Specified Output Voltage
2.  $V_{OUT(E)}$  : Effective Output Voltage ( i.e. The output voltage when " $V_{OUT(T)} + 1.0V$ " is provided at the Vin pin while maintaining a certain  $I_{OUT}$  value.)
3.  $V_{dif}$  :  $V_{IN1} - V_{OUT(E)}$   
 $V_{IN1}$  : The input voltage when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



## Type Characteristics ( ME6216A33 )

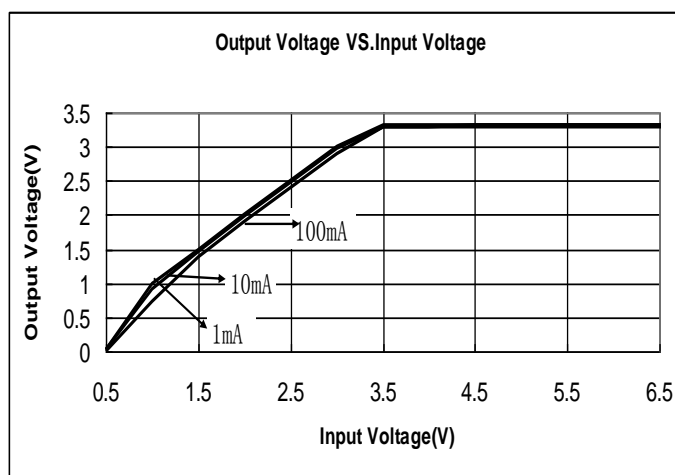
(1) Output Voltage VS. Output Current

( $V_{IN}=V_{OUT}+1$ ,  $T_a = 25\text{ }^\circ\text{C}$ )



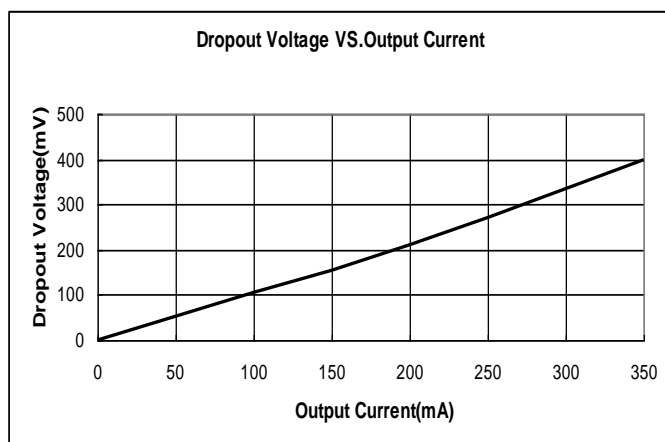
(2) Output Voltage VS. Input Voltage

( $T_a = 25\text{ }^\circ\text{C}$ )



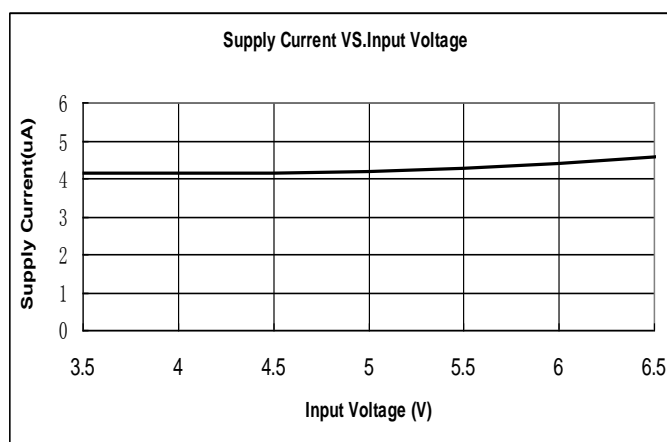
(3) Dropout Voltage VS. Output Current

( $V_{IN}=V_{OUT}+1V$ ,  $T_a = 25\text{ }^\circ\text{C}$ )

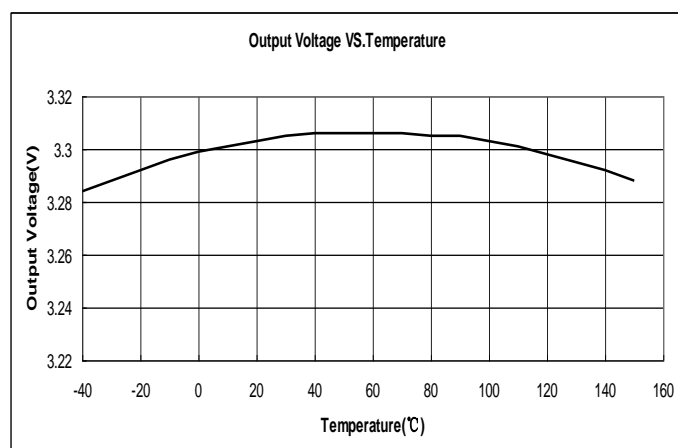


(4) Supply Current VS. Input Voltage

( $T_a = 25\text{ }^\circ\text{C}$ )

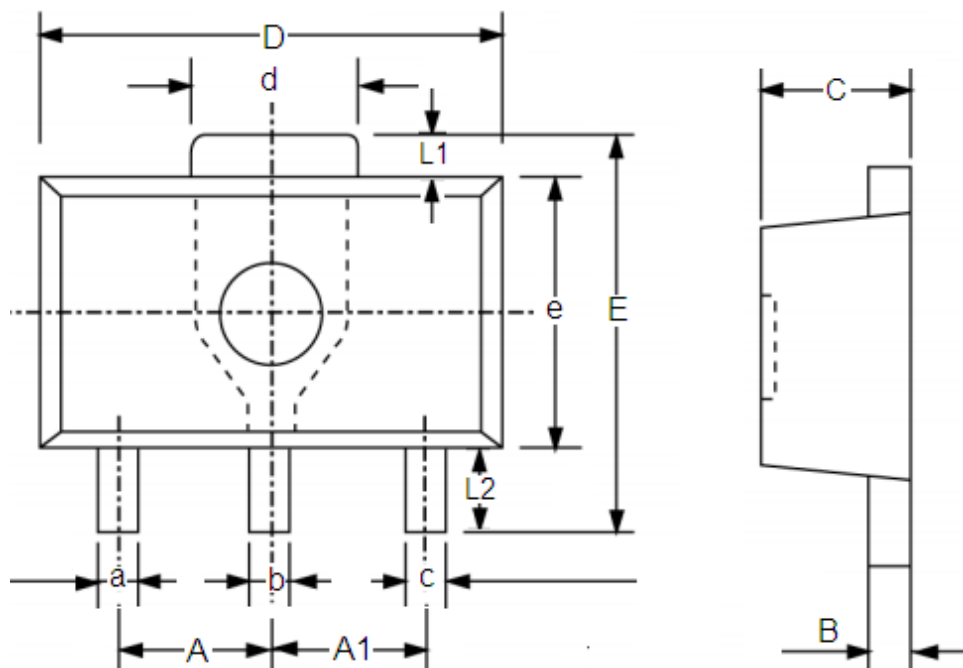


(5) Output Voltage VS. Temperature ( $V_{IN}=V_{OUT}+1V$ ,  $I_{OUT} = 10\text{mA}$ )



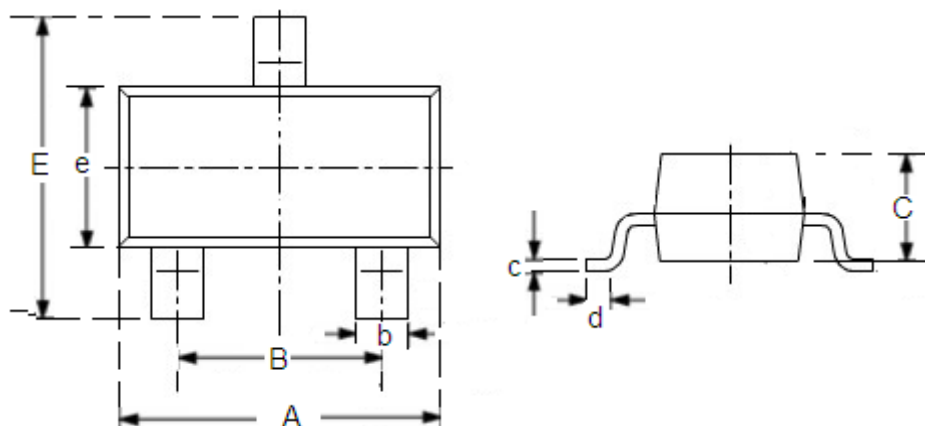
Packaging Information

● SOT89-3



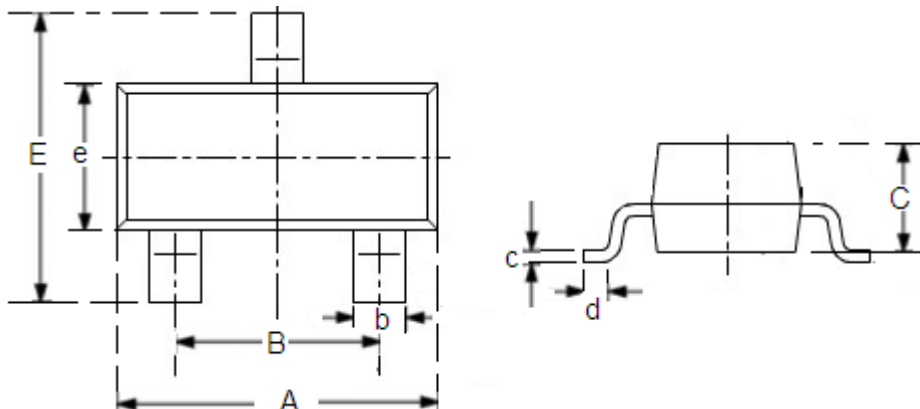
DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	1.4	1.6	0.0551	0.0630
A1	1.4	1.6	0.0551	0.0630
a	0.36	0.48	0.0142	0.0189
b	0.41	0.53	0.0161	0.0209
c	0.36	0.48	0.0142	0.0189
d	1.4	1.75	0.0551	0.0689
B	0.38	0.43	0.015	0.0169
C	1.4	1.6	0.0551	0.0630
D	4.4	4.6	0.1732	0.181
E	-	4.25	-	0.1673
e	2.4	2.6	0.0945	0.1023
L1	0.4	-	0.0157	-
L2	0.8	-	0.0315	-

● SOT23-3



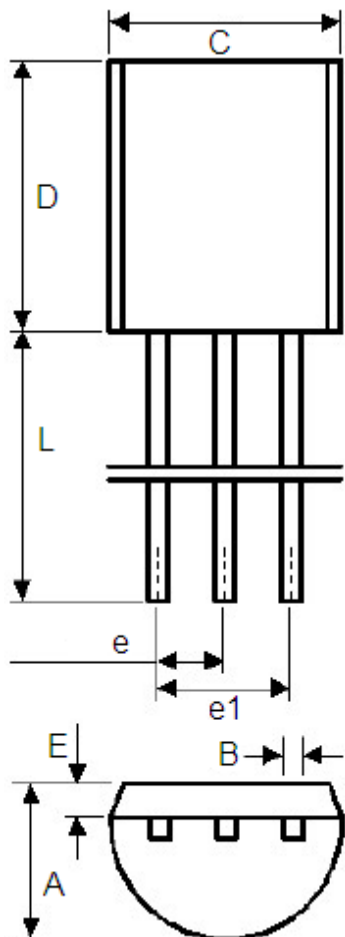
DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	2.7	3.1	0.1063	0.122
B	1.7	2.1	0.0669	0.0827
b	0.35	0.5	0.0138	0.0197
C	1.0	1.2	0.0394	0.0472
c	0.1	0.25	0.0039	0.0098
d	0.2	-	0.0079	-
E	2.6	3.0	0.1023	0.1181
e	1.5	1.8	0.059	0.0708

● SOT23



DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	2.7	3.1	0.1063	0.122
B	1.7	2.1	0.0669	0.0827
b	0.35	0.5	0.0138	0.0197
C	1.0	1.2	0.0394	0.0472
c	0.1	0.25	0.0039	0.0098
d	0.2	-	0.0079	-
E	2.1	2.64	0.0827	0.1039
e	1.2	1.4	0.0472	0.0551

● TO-92



	Min	Max	Min	Max
A	3.4	3.8	0.13386	0.1496
B	0.3	0.5	0.0118	0.0197
C	4.4	4.8	0.1732	0.189
D	4.4	4.8	0.1732	0.189
E	0.9	1.5	0.0354	0.059
e	1.17	1.37	0.046	0.0539
e1	2.39	2.69	0.094	0.1059
L	12	16	0.4724	0.6299

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