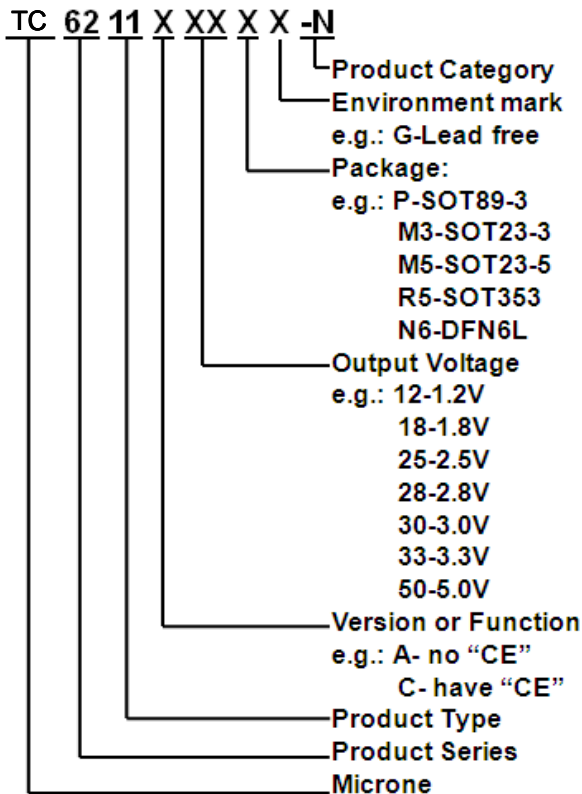


High Speed LDO Regulators, High PSRR, Low noise, TC6211 Series

General Description

The TC6211 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 TC6211 series is ideal for today's cutting edge mobile phone. Internally the TC6211 includes a reference voltage source, error amplifiers, driver transistors, current limiters and phase compensators. The TC6211's current limiters' foldback circuit also operates as a short protect for the output current limiter and the output pin. The TC6211 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.

Selection Guide



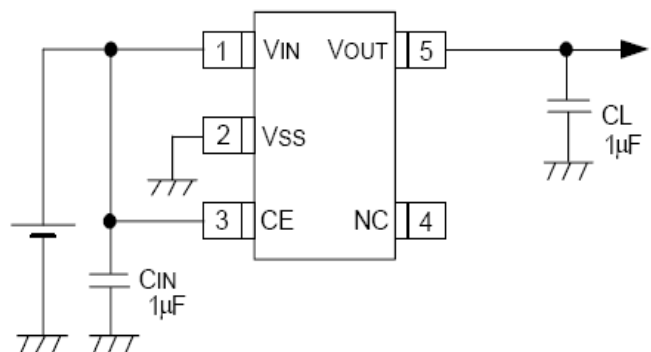
Features

- 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: $\pm 2\%$
- Low Power Consumption: 40uA (TYP.)
- Standby Current: 0.1uA (TPY.)
- High Ripple Rejection: 70dB@1KHz
(TC6211C33)
- Low output noise: 50uVrms
- Line Regulation: 0.05% (TYP.)
- Ultra Small Packages: SOT-89-3, SOT-23-3,
SOT-23-5, DFN6L, SOT-353

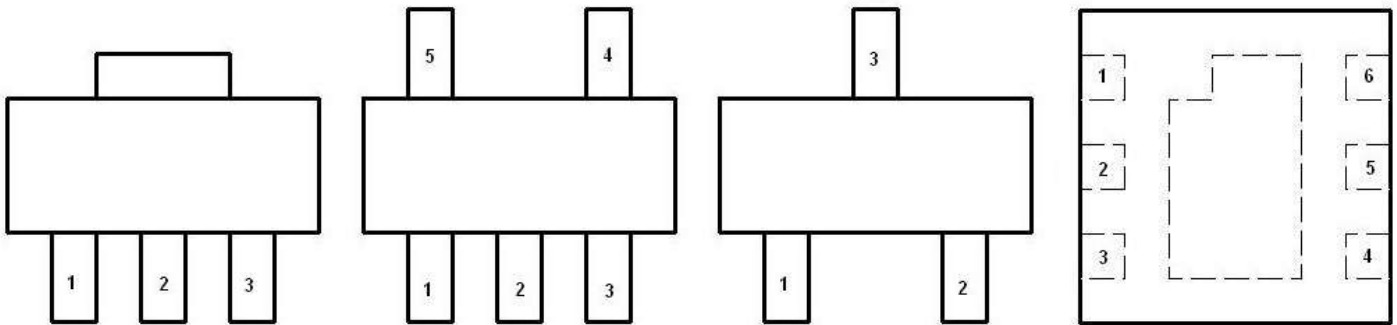
Typical Application

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

Typical Application Circuit



Pin Configuration



SOT-89-3

SOT-23-5/SOT-353

SOT-23-3

DFN6L

Pin Assignment

TC6211 AXX

Pin Number		Pin Name	Functions
SOT-23-3	SOT-89-3		
1	1	V_{SS}	Ground
2	3	V_{OUT}	Output
3	2	V_{IN}	Power Input

TC6211 AXX-DS

Pin Number		Pin Name	Functions
SOT-23-3			
1		V_{IN}	Power Input
2		V_{OUT}	Output
3		V_{SS}	Ground

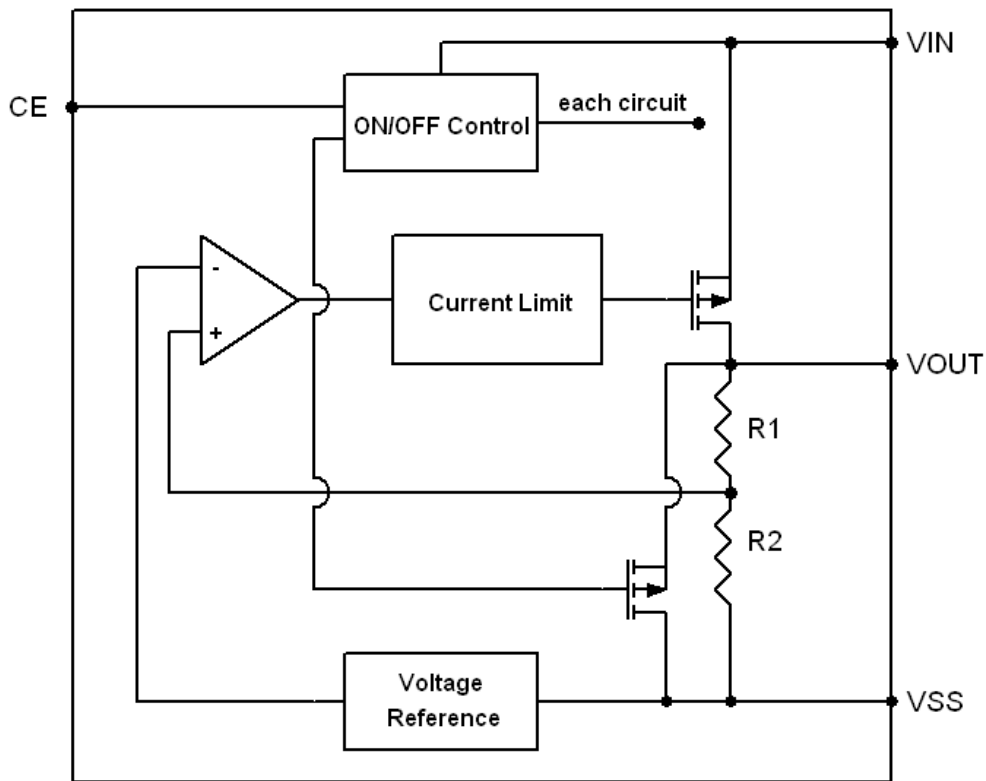
TC6211 CXX

Pin Number		Pin Name	Functions
SOT-23-5/SOT-353	DFN6L		
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

Absolute Maximum Ratings

Parameter	Symbol	Ratings	Units	
Input Voltage	V_{IN}	6.5	V	
Output Current	I_{OUT}	600	mA	
Output Voltage	V_{OUT}	$V_{SS}-0.3 \sim V_{IN} + 0.3$	V	
CE Pin Voltage	V_{CE}	$V_{SS}-0.3 \sim V_{IN} + 0.3$	V	
Power Dissipation	SOT-23	P_D	250	mW
	SOT-353		250	
	DFN		300	
	SOT-89		500	
Operating Temperature Range	T_{OPR}	$-40 \sim +85$	$^{\circ}C$	
Storage Temperature Range	T_{STG}	$-40 \sim +125$	$^{\circ}C$	

Block Diagram



Electrical Characteristics
TC6211 C12
 $(V_{IN} = V_{OUT} + 1V, V_{CE} = V_{IN}, C_{IN} = C_L = 1\mu F, T_a = 25^\circ C, \text{ unless otherwise noted})$

Parameter	Symbol	Conditions	Min.	Typ.	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}	$V_{IN} = V_{OUT} + 1V$		300		mA
Load Regulation	ΔV_{OUT}	$V_{IN} = V_{OUT} + 1V, 1mA \leq I_{OUT} \leq 100mA$		8		mV
Dropout Voltage (Note 1)	V_{DIF1}	$I_{OUT} = 100mA$		280		mV
	V_{DIF2}	$I_{OUT} = 200mA$		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	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} = 40mA$ $V_{OUT} + 1V \leq V_{IN} \leq 6.5V$		0.03		%/V
CE "High" Voltage	VCEH	Start up	1.0			V
CE "Low" Voltage	VCEL	Shut down			0.5	V
Output noise	EN	$I_{OUT} = 40mA, 300Hz \sim 50kHz$		50		μV_{rms}
Ripple Rejection Rate	PSRR	$V_{IN} = [V_{OUT} + 1]V$ $+1V_{p-pAC}$	$I_{OUT} = 10mA, 1kHz$	70		dB
			$I_{OUT} = 100mA, 10kHz$	62		

TC6211 C18
 $(V_{IN} = V_{OUT} + 1V, V_{CE} = V_{IN}, C_{IN} = C_L = 1\mu F, T_a = 25^\circ C, \text{ unless otherwise noted})$

Parameter	Symbol	Conditions	Min.	Typ.	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}	$V_{IN} = V_{OUT} + 1V$		300		mA
Load Regulation	ΔV_{OUT}	$V_{IN} = V_{OUT} + 1V, 1mA \leq I_{OUT} \leq 100mA$		9		mV
Dropout Voltage (Note 1)	V_{DIF1}	$I_{OUT} = 100mA$		200		mV
	V_{DIF2}	$I_{OUT} = 200mA$		400		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	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} = 40mA$ $V_{OUT} + 1V \leq V_{IN} \leq 6.5V$		0.05		%/V
CE "High" Voltage	VCEH	Start up	1.0			V
CE "Low" Voltage	VCEL	Shut down			0.5	V

Output noise	EN	$I_{OUT} = 40\text{mA}$, 300Hz~50kHz		50		uVrms
Ripple Rejection Rate	PSRR	$V_{IN} =$	$I_{OUT} = 10\text{mA}$, 1kHz	70		dB
		$[V_{OUT} + 1]\text{V} + 1\text{V}$ p-pAC	$I_{OUT} = 100\text{mA}$, 10kHz	62		

TC6211 C25

($V_{IN} = V_{OUT} + 1\text{V}$, $V_{CE} = V_{IN}$, $C_{IN} = C_L = 1\mu\text{F}$, $T_a = 25^\circ\text{C}$, unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Output Voltage	$V_{OUT(E)}$ (Note 2)	$I_{OUT} = 30\text{mA}$, $V_{IN} = V_{OUT} + 1\text{V}$	X 0.98	$V_{OUT(T)}$ (Note 1)	X 1.02	V
Maximum Output Current	I_{OUTMAX}	$V_{IN} = V_{OUT} + 1\text{V}$		400		mA
Load Regulation	ΔV_{OUT}	$V_{IN} = V_{OUT} + 1\text{V}$, $1\text{mA} \leq I_{OUT} \leq 100\text{mA}$		9		mV
Dropout Voltage (Note 1)	V_{DIF1}	$I_{OUT} = 100\text{mA}$		110		mV
	V_{DIF2}	$I_{OUT} = 200\text{mA}$		220		mV
Supply Current	I_{SS}	$V_{IN} = V_{OUT} + 1\text{V}$		40		μA
Stand-by Current	I_{CEL}	$V_{CE} = 0\text{V}$		0		μA
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} = 40\text{mA}$ $V_{OUT} + 1\text{V} \leq V_{IN} \leq 6.5\text{V}$		0.04		%/V
CE“High”Voltage	VCEH	Start 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
Ripple Rejection Rate	PSRR	$V_{IN} = [V_{OUT} + 1]\text{V} + 1\text{V}$	$I_{OUT} = 10\text{mA}$, 1kHz	70		dB
		p-pAC	$I_{OUT} = 100\text{mA}$, 10kHz	62		
			$I_{OUT} = 200\text{mA}$, 10kHz	62		
Short-circuit Current	I_{SHORT}	$V_{IN} = V_{OUT} + 1\text{V}$, $V_{CE} = V_{IN}$, $V_{OUT} = 0\text{V}$		120		mA

TC6211 C28

($V_{IN} = V_{OUT} + 1\text{V}$, $V_{CE} = V_{IN}$, $C_{IN} = C_L = 1\mu\text{F}$, $T_a = 25^\circ\text{C}$, unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Output Voltage	$V_{OUT(E)}$ (Note 2)	$I_{OUT} = 30\text{mA}$, $V_{IN} = V_{OUT} + 1\text{V}$	X 0.98	$V_{OUT(T)}$ (Note 1)	X 1.02	V
Maximum Output Current	I_{OUTMAX}	$V_{IN} = V_{OUT} + 1\text{V}$		450		mA
Load Regulation	ΔV_{OUT}	$V_{IN} = V_{OUT} + 1\text{V}$, $1\text{mA} \leq I_{OUT} \leq 100\text{mA}$		7		mV
Dropout Voltage (Note 1)	V_{DIF1}	$I_{OUT} = 100\text{mA}$		110		mV
	V_{DIF2}	$I_{OUT} = 200\text{mA}$		220		mV
Supply Current	I_{SS}	$V_{IN} = V_{OUT} + 1\text{V}$		50		μA
Stand-by Current	I_{CEL}	$V_{CE} = 0\text{V}$		0		μA
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} = 40\text{mA}$ $V_{OUT} + 1\text{V} \leq V_{IN} \leq 6.5\text{V}$		0.04		%/V
CE“High”Voltage	VCEH	Start up	1.0			V

CE "Low" Voltage	V _{CEL}	Shut down			0.5	V
Output noise	EN	I _{OUT} =40mA, 300Hz~50kHz			50	uVrms
Ripple Rejection TC6211 Rate	PSRR	V _{IN} =[V _{OUT} +1]V+1 Vp-pAC	I _{OUT} =10mA,1kHz		70	dB
			I _{OUT} =100mA,10kHz		62	
			I _{OUT} =200mA,10kHz		62	
Short-circuit Current	I _{SHORT}	V _{IN} = V _{OUT} +1V, V _{CE} = V _{IN} , V _{OUT} =0V			120	mA

TC6211 C30

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

Parameter	Symbol	Conditions	Min.	Typ.	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 (Note 1)	V _{DIF1}	I _{OUT} =100mA		100		mV
	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		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
CE "High" Voltage	V _{CEH}	Start up	1.0			V
CE "Low" Voltage	V _{CEL}	Shut down			0.5	V
Output noise	EN	I _{OUT} =40mA, 300Hz~50kHz			50	uVrms
Ripple Rejection Rate	PSRR	V _{IN} = [V _{OUT} +1]V +1Vp-pAC	I _{OUT} =10mA,1kHz		70	dB
			I _{OUT} =100mA,10kHz		62	
			I _{OUT} =200mA,10kHz		62	
Short-circuit Current	I _{SHORT}	V _{IN} = V _{OUT} +1V, V _{CE} = V _{IN} , V _{OUT} =0V			120	mA

TC6211 C33

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

Parameter	Symbol	Conditions	Min.	Typ.	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		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		μA
Stand-by Current	I_{CEL}	$V_{CE} = 0V$		0.1		μA
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} = 40mA$ $V_{OUT} + 1V \leq V_{IN} \leq 6.5V$		0.05		%/V
CE "High" Voltage	VCEH	Start up	1.0			V
CE "Low" Voltage	VCEL	Shut down			0.5	V
Output noise	EN	$I_{OUT} = 40mA$, 300Hz~50kHz		50		μV_{rms}
Ripple Rejection Rate	PSRR	$V_{IN} = [V_{OUT} + 1]V$ +1Vp-pAC	$I_{OUT} = 10mA, 1kHz$		70	dB
			$I_{OUT} = 100mA, 10kHz$ Z		62	
			$I_{OUT} = 200mA, 10kHz$ Z		62	
Short-circuit Current	I_{SHORT}	$V_{IN} = V_{OUT} + 1V$, $V_{CE} = V_{IN}$, $V_{OUT} = 0V$		150		mA

TC6211 C50

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Output Voltage	$V_{OUT}(E)$ (Note 2)	$I_{OUT} = 30mA$, $V_{IN} = V_{OUT} + 1V$	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}	$V_{IN} = V_{OUT} + 1V$, $1mA \leq I_{OUT} \leq 100mA$		8		mV
Dropout Voltage (Note 1)	V_{DIF1}	$I_{OUT} = 100mA$		100		mV
	V_{DIF2}	$I_{OUT} = 200mA$		200		mV
Supply Current	I_{SS}	$V_{IN} = V_{OUT} + 1V$		40		μA
Stand-by Current	I_{CEL}	$V_{CE} = 0V$		0		μA
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} = 40mA$ $V_{OUT} + 1V \leq V_{IN} \leq 6.5V$		0.05		%/V
CE "High" Voltage	VCEH	Start up	1.0			V
CE "Low" Voltage	VCEL	Shut down			0.7	V
Output noise	EN	$I_{OUT} = 40mA$, 300Hz~50kHz		50		μV_{rms}
Ripple Rejection Rate	PSRR	$V_{IN} = [V_{OUT} + 1]V$ +1Vp-pAC	$I_{OUT} = 10mA, 1kHz$		70	dB
			$I_{OUT} = 100mA, 10kHz$		62	
			$I_{OUT} = 200mA, 10kHz$		62	
Short-circuit Current	I_{SHORT}	$V_{IN} = V_{OUT} + 1V$, $V_{CE} = V_{IN}$, $V_{OUT} = 0V$		110		mA

TC6211 A30
 $(V_{IN} = V_{OUT} + 1V, C_{IN} = C_L = 1\mu F, T_a = 25^\circ C, \text{ unless otherwise noted})$

Parameter	Symbol	Conditions	Min.	Typ.	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}	$V_{IN} = V_{OUT} + 1V, 1mA \leq I_{OUT} \leq 100mA$		8		mV
Dropout Voltage (Note 1)	V_{DIF1}	$I_{OUT} = 100mA$		100		mV
	V_{DIF2}	$I_{OUT} = 200mA$		210		mV
Supply Current	I_{SS}	$V_{IN} = V_{OUT} + 1V$		60		μA
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} = 40mA$ $V_{OUT} + 1V \leq V_{IN} \leq 6.5V$		0.05		%/V
Output noise	EN	$I_{OUT} = 40mA, 300Hz \sim 50kHz$		50		μV_{rms}
Ripple Rejection Rate	PSRR	$V_{IN} = [V_{OUT} + 1]V$ +1Vp-pAC	$I_{OUT} = 10mA, 1kHz$	70		dB
		$I_{OUT} = 100mA, 10kHz$	62			
		$I_{OUT} = 200mA, 10kHz$	62			
Short-circuit Current	I_{SHORT}	$V_{IN} = V_{OUT} + 1V, V_{CE} = V_{IN}, V_{OUT} = 0V$		120		mA

TC6211 A33
 $(V_{IN} = V_{OUT} + 1V, C_{IN} = C_L = 1\mu F, T_a = 25^\circ C, \text{ unless otherwise noted})$

Parameter	Symbol	Conditions	Min.	Typ.	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}	$V_{IN} = V_{OUT} + 1V, 1mA \leq I_{OUT} \leq 100mA$		9		mV
Dropout Voltage (Note 1)	V_{DIF1}	$I_{OUT} = 100mA$		120		mV
	V_{DIF2}	$I_{OUT} = 200mA$		260		mV
Supply Current	I_{SS}	$V_{IN} = V_{OUT} + 1V$		60		μA
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} = 40mA$ $V_{OUT} + 1V \leq V_{IN} \leq 6.5V$		0.05		%/V
Output noise	EN	$I_{OUT} = 40mA, 300Hz \sim 50kHz$		50		μV_{rms}
Ripple Rejection Rate	PSRR	$V_{IN} = [V_{OUT} + 1]V$ +1Vp-pAC	$I_{OUT} = 10mA, 1kHz$	70		dB
		$I_{OUT} = 100mA, 10kHz$	62			
		$I_{OUT} = 200mA, 10kHz$	62			
Short-circuit Current	I_{SHORT}	$V_{IN} = V_{OUT} + 1V, V_{OUT} = 0V$		150		mA

TC6211 A25

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Output Voltage	$V_{OUT(E)}$ (Note 2)	$I_{OUT} = 30mA$, $V_{IN} = V_{OUT} + 1V$	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}	$V_{IN} = V_{OUT} + 1V$, $1mA \leq I_{OUT} \leq 100mA$		9		mV
Dropout Voltage (Note 1)	V_{DIF1}	$I_{OUT} = 100mA$		80		mV
	V_{DIF2}	$I_{OUT} = 200mA$		180		mV
Supply Current	I_{SS}	$V_{IN} = V_{OUT} + 1V$		40		μA
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT} = 40mA$ $V_{OUT} + 1V \leq V_{IN} \leq 6.5V$		0.05		%/V
Output noise	EN	$I_{OUT} = 40mA$, 300Hz~50kHz		50		μV_{rms}
Ripple Rejection Rate	PSRR	$V_{IN} = [V_{OUT} + 1]V$ $+1V_{p-pAC}$	$I_{OUT} = 10mA, 1kHz$	70		dB
			$I_{OUT} = 100mA, 10kHz$	62		
			$I_{OUT} = 200mA, 10kHz$	62		
Short-circuit Current	I_{SHORT}	$V_{IN} = V_{OUT} + 1V$, $V_{OUT} = 0V$		150		mA

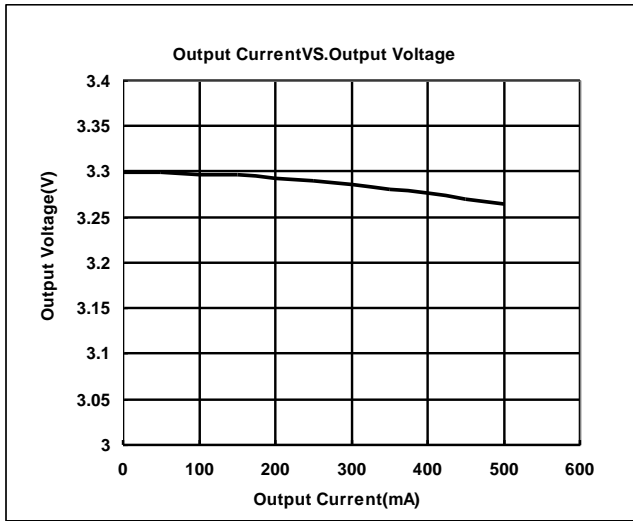
Note :

- $V_{OUT(T)}$: Specified Output Voltage
- $V_{OUT(E)}$: Effective Output Voltage (i.e. The output voltage when " $V_{OUT(T)} + 1.0V$ " is provided at the V_{in} 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} { $V_{OUT(T)} + 1.0V$ } is input.

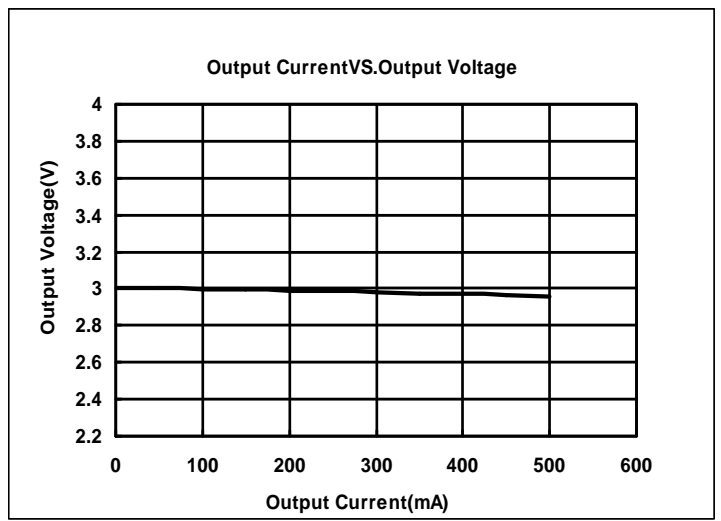
Type Characteristics

(1) Output Current VS. Output Voltage ($V_{IN} = V_{out} + 1$, $T_a = 25^\circ\text{C}$)

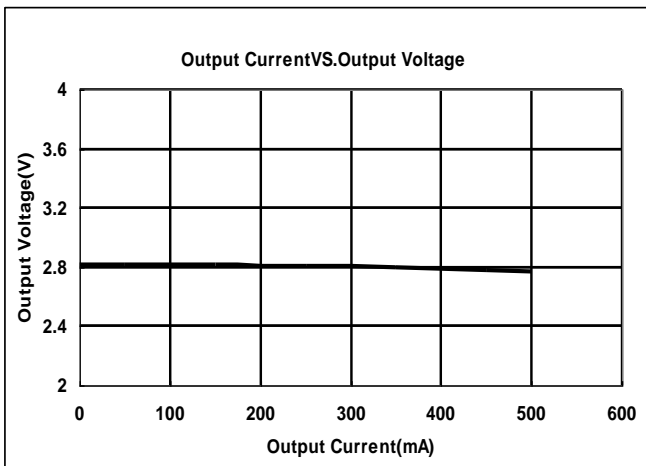
TC6211 C33M5G



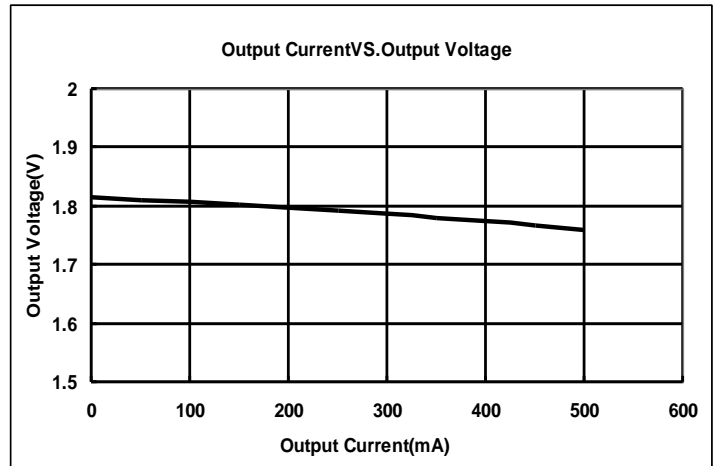
TC6211 C30M5G



TC6211 C28M5G

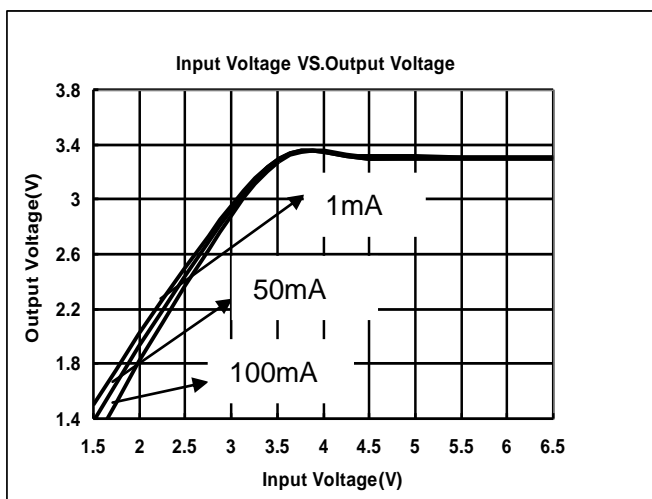


TC6211 C18M5G

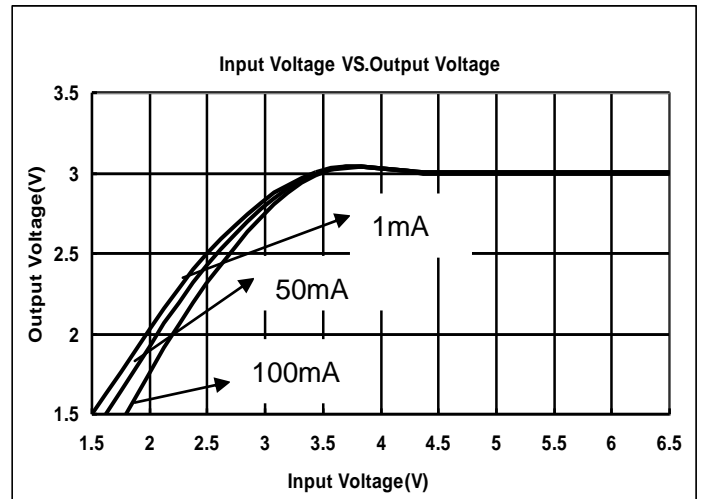


(2) Input Voltage VS. Output Voltage ($T_a = 25^\circ\text{C}$)

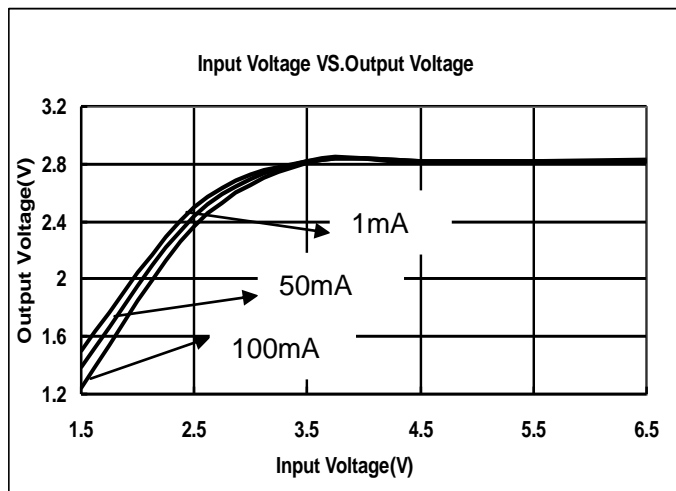
TC6211 C33M5G



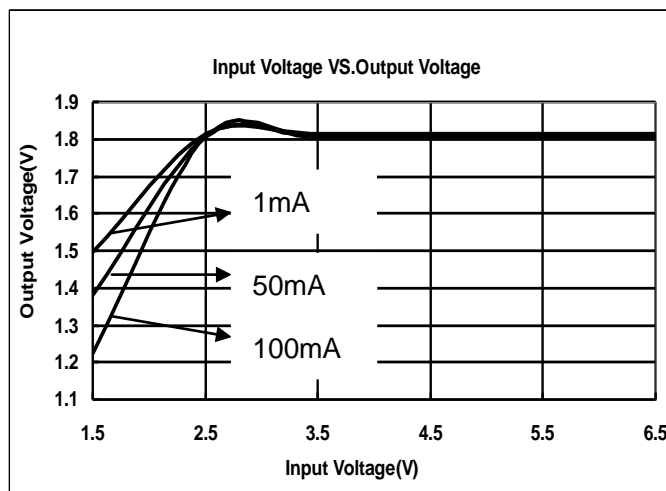
TC6211 C30M5G



TC6211 C28M5G

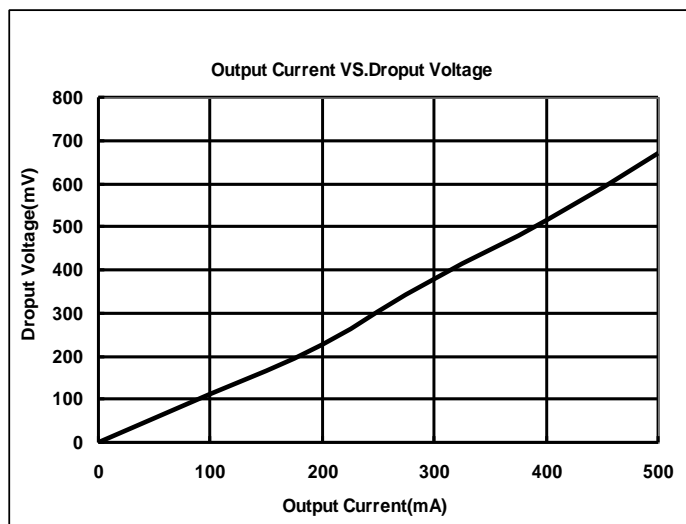


TC6211 C18M5G

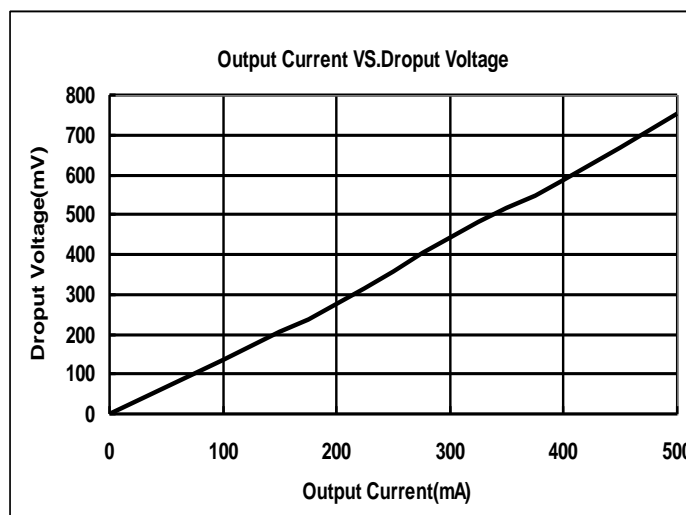


(3) Output Current VS. Dropout Voltage ($V_{IN}=V_{out}+1V, T_a = 25^\circ C$)

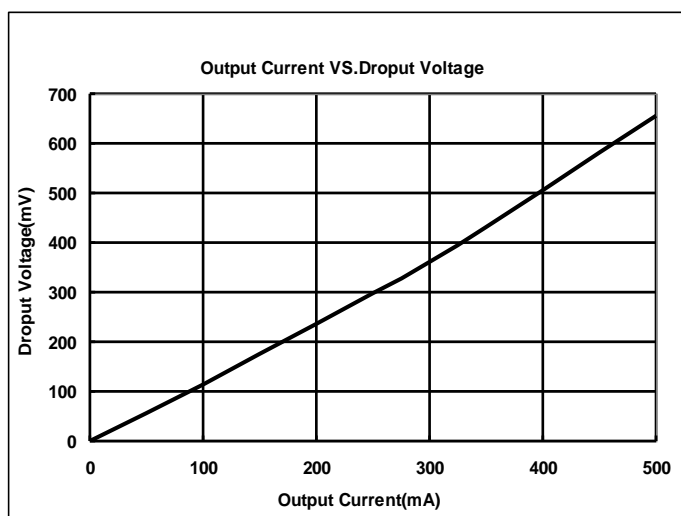
TC6211 C33M5G



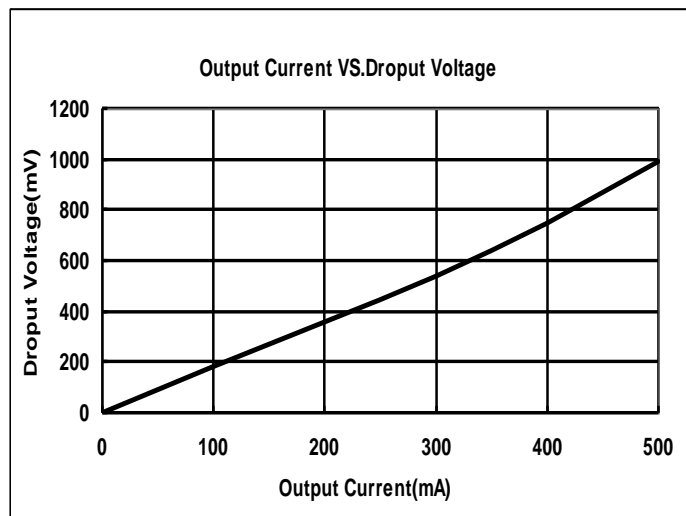
TC6211 C30M5G



TC6211 C28M5G

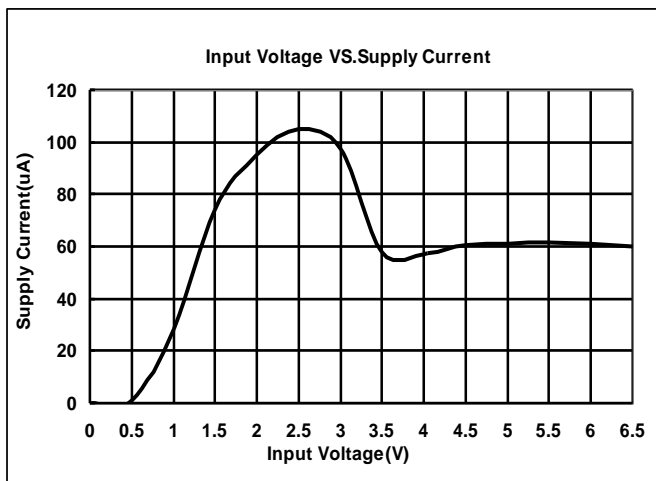


TC6211 C18M5G

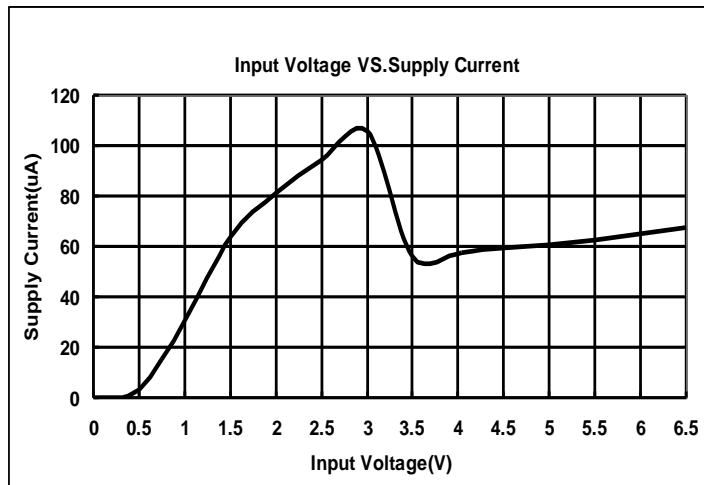


(4) Input Voltage VS. Supply Current ($T_a = 25^\circ C$)

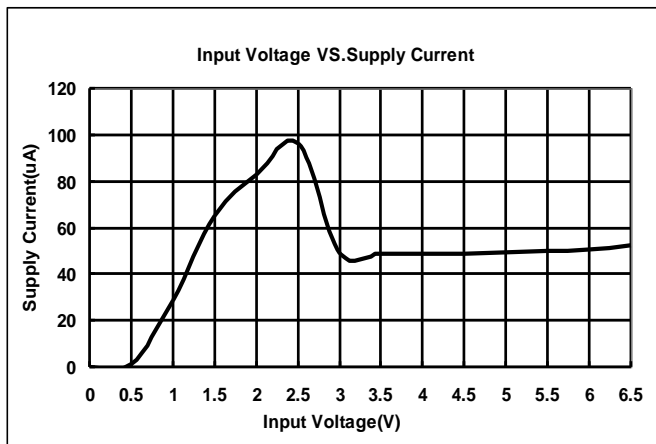
TC6211 C33M5G



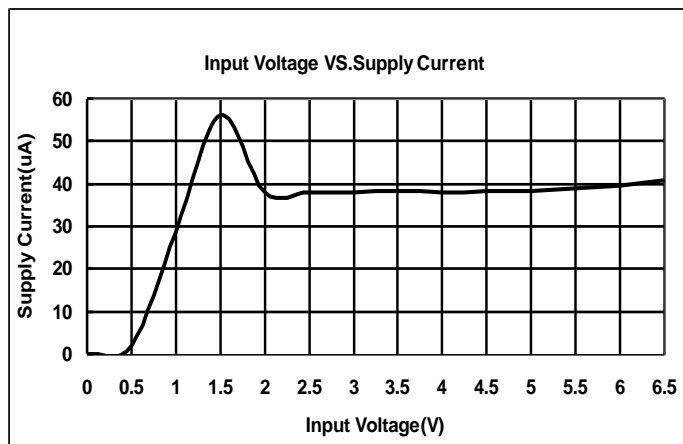
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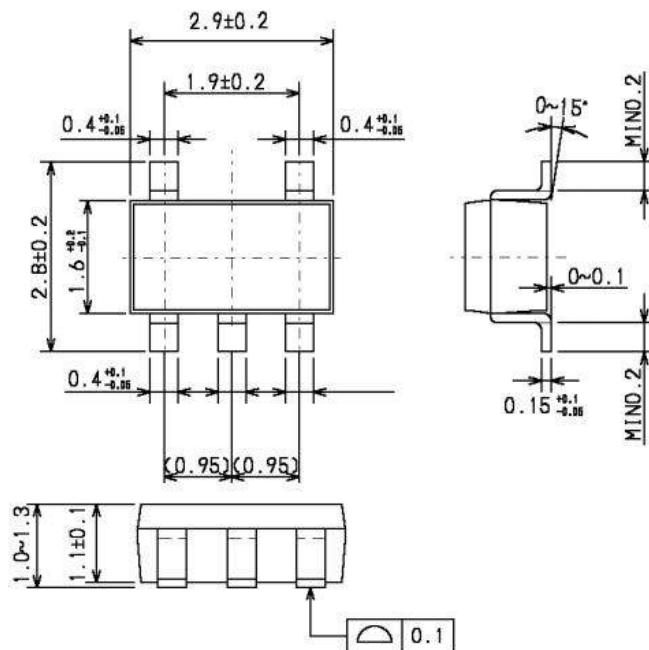


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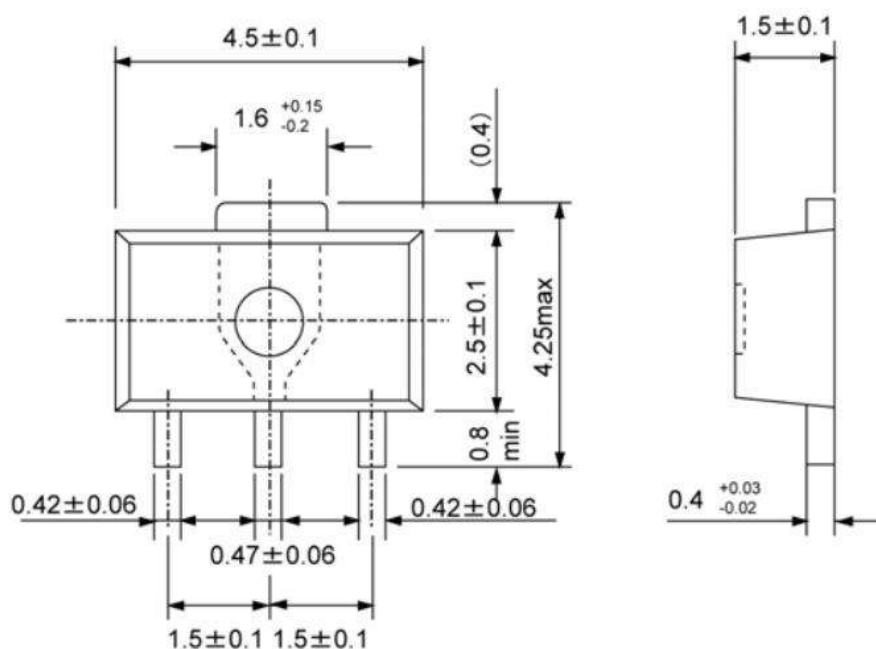


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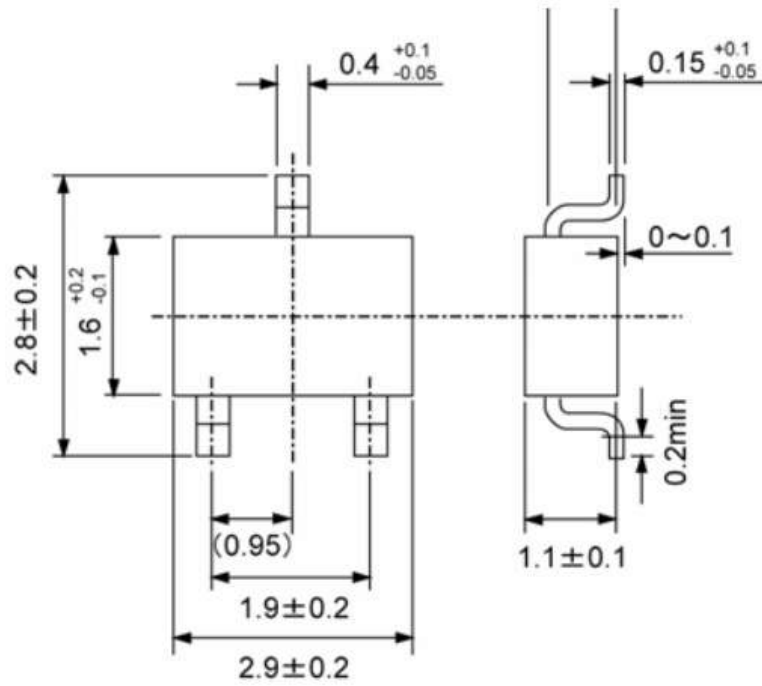
● SOT23-5



● SOT89-3



● SOT23-3



● SOT353

