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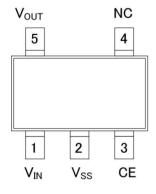
#### **Features**

- 100µA Current at no Load
- ±2% Output Accuracy
- 300mA Output Current
- Current Limit Protection

## **Applications**

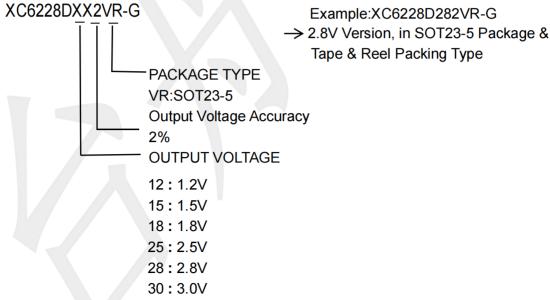
- Industrial Controls
- Home Automation
- Modules (Wireless, Camera, etc.)
- Portable, Battery Powered Equipment

#### PIN CONFIGURATION



Pin Number	Pin Name	Pin Function		
SOT23-5	Fill Name			
1	VIN	Input of Supply Voltage		
2	VSS	Ground		
3	CE	ON/OFF Control		
4	NC	No Internal Connection		
5	VOUT	Output of the Regulator		

## **Ordering Information**



33:3.3V

Tape & Reel Packing Type



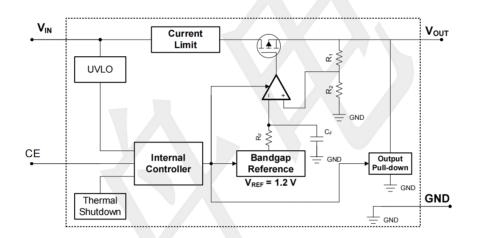
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## **Absolute Maximum Ratings**

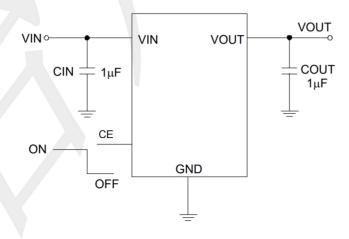
### over operating free-air temperature range (unless otherwise noted)

	• • • • • • • • • • • • • • • • • • • •	•	All and the second seco	
		MIN	MAX	UNIT
VIN	Continuous input voltage range	-0.3	6.0	
VOUT	Output voltage range	-0.3	6.0	V
EN	EN pin voltage range	-0.3	6.0	
IOUT	Output pin current	Internally limited		mA
Temperature	Operating Temperature Range ,Topr	-40	+85	**
	Storage, Tstg	-40	+125	⊢ °C

### **BLOCK DIAGRAM**



## **Typical Application Circuit**





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### **Electrical Characteristics**

(VIN=15V, VEN=5V, TA=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST Conditions	MIN	TYP	MAX	UNIT
Supply Voltage	VIN		1.7	/	5.5	V
Output current	IOUT		300			mA
DC Output Voltage Accuracy		IOUT = 1mA	-2		2	%
	IOUT = 300mA	VOUT = 1.2V	/	480		mV
		VOUT = 1.5V	/	420		
		VOUT = 1.8V	<b>/</b>	300		
Dropout Voltage (VIN-VOUT)		VOUT = 2.5V	-	240		
		VOUT = 2.8V		230		
		VOUT = 3.0V		220		
		VOUT = 3.3V		200		
Ground Current (IOUT = 0mA)	IQ	VOUT = 3.3V			100	uA
Shutdown Ground Current	ISD	VEN = 0V,	-	0.01	1	
VOUT Shutdown Leakage Current	ILEAK	VOUT = 0V	<u>-</u> -	0.01	1	
Frakla Threehold \/altage	VIH	CE Rising	1.2			V
Enable Threshold Voltage	VIL	CE Falling			0.3	
CE Input Current	ICE	VCE = 5V		10	100	nA
Line Regulation	ΔLINE	IOUT =1mA, 2≤VIN≤6V		0.3		- %
Load Regulation	ΔLOAD	10mA≤ IOUT ≤ 100mA		0.3		
Output Current Limit	ILIM	VOUT=0.9× VOUT(NOM)	350			mA
Power Supply Rejection Ratio	PSRR	VOUT =3.3V, IOUT =40mA, VIN = 5.5V, f = 1kHz		70		dB
Package Thermal Resistance θJA (Note 1)	Thermal Resistance Junction-to Ambient			210		°CM
Total Power Dissipation T <sub>C</sub> =25℃	Р <sub>ртот</sub>			0.2		W

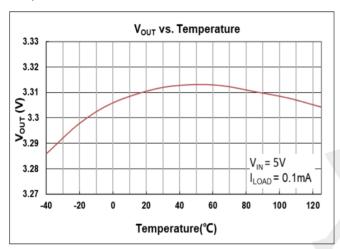
Note: Test condition: For SOT23-5, the device is mounted on FR-4 substrate PC board, with minimum recommended pad layout.

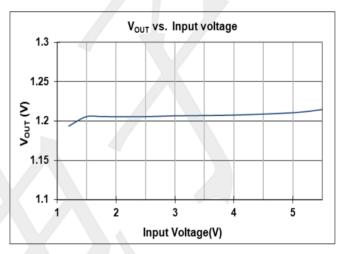


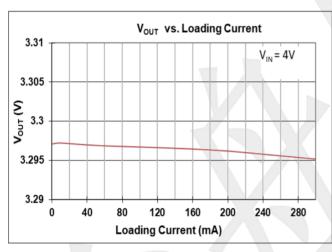
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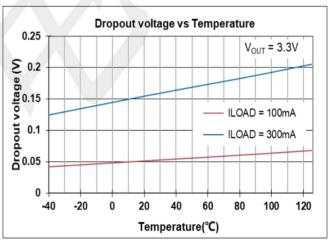
## Typical Operating Characteristics (25 °C, unless otherwise noted)

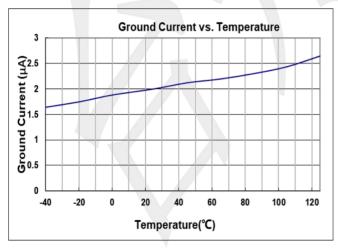
Unless otherwise specified: TA = 25  $^{\circ}$ C,VIN = VO(NOM) + 1 V,COUT = 1  $\mu$ F,CIN = 1  $\mu$ F all voltage options, EN pin tied to VIN.

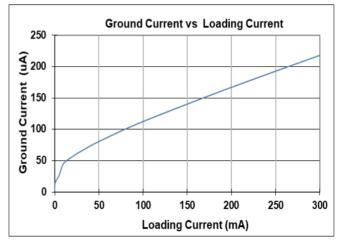








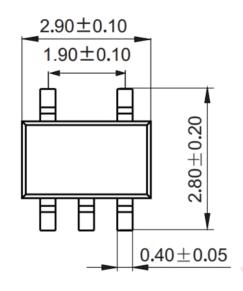


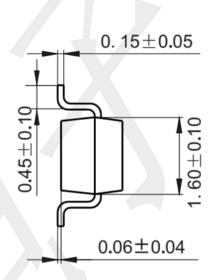


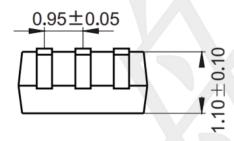


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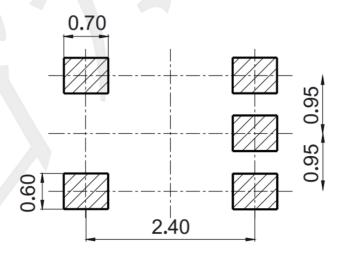
## Package Outline Dimensions (unit: mm) SOT23-5







## Mounting Pad Layout (unit: mm)



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