

TSL9A12 200mA, 6V, *Nanopower* I_Q 600nA Low-Dropout Linear Regulator with Enable

SOT-23

3 69 16,2

Pin Definition:

- 1. Ground
- 2. Output
- 3. Input

SOT-25



Pin Definition:

- 1. Input
- 2. Ground
- 3. Enable
- 4. NC
- 5. Output

Description

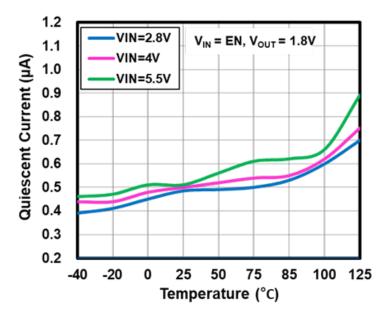
The TSL9A12 series are ultra-low quiescent current regulator features low dropout voltage and low current in the standby mode with 600nA quiescent current at no load. The TSL9A12 series is ideally suited for standby micro-control-unit systems, especially for always-on applications like portable, and other battery-operated systems. The TSL9A12 series retains all the features that are common to low dropout regulators including a low dropout PMOS pass device, short circuit protection and thermal shutdown.

Key Features

- Input voltage up to 6V
- Fixed output voltages 1.8V and 3.3V
- Ultra-low quiescent current 600nA (typ.)
- Output voltage accuracy ± 2%
- Dropout voltage 400mV @ I_O: 200mA (V_{OUT}=3.3V)
- Stable with 1µF ceramic capacitors
- Current limit protection
- · Over temperature protection
- RoHS Compliant
- Halogen-Free

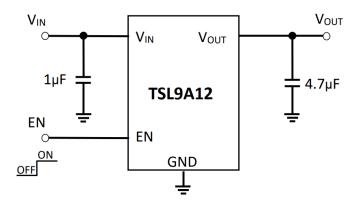
Applications

- Portable battery powered equipment
- Low power microcontrollers
- Wireless communication equipment





Typical Application Circuit



Product Portfolio

Part Number	Package	V _{IN} Max. (V)	V _{OUT} (V)	I _{оит} (mA)	l _Q Typ. (μΑ)	l _Q Max. (μΑ)	V _{DROP} Max. (mV)	Enable
TSL9A12V18CX	SOT-23	6	1.8	200	0.6	1.2	670 @200mA	No
TSL9A12V18CX5	SOT-25							Yes
TSL9A12V33CX	SOT-23	6	3.3	200	0.6	1.2	575 @200mA	No
TSL9A12V33CX5	SOT-25							Yes

Ordering Information

Ordering Part Number	Package	Reel (pcs)	Reel Size (inch)	Inner Box (pcs)	Carton (pcs)	Carton Size (mm)	Gross Weight (kg/ carton)
TSL9A12V18CX RFG	SOT-23	3,000	7	12,000	144,000	390 * 290 * 400	8.24
TSL9A12V18CX5 RFG	SOT-25						
TSL9A12V33CX RFG	SOT-23						
TSL9A12V33CX5 RFG	SOT-25						

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