

## 300mA Low Dropout CMOS Voltage Regulators

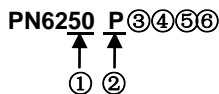
### General Description

The PN6250 series are highly precise, low power consumption, positive voltage regulators manufactured using CMOS and laser trimming technologies. The series provides large currents with a significantly small dropout voltage. The PN6250 consists of a current limiter circuit, a driver transistor, a precision reference voltage and an error amplifier. Output voltage is selectable in 0.1V steps between 1.3V ~ 6.0V. SOT-23 and SOT-89 packages are available.

### Applications

- Mobile phones
- Cordless phones
- Cameras, video recorders
- Portable games
- Portable AV equipment
- Reference voltage
- Battery powered equipment

### Ordering Information



### Features

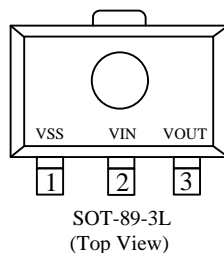
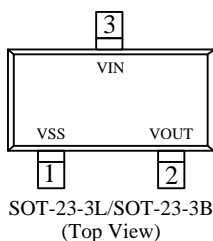
- Output Voltage Range: 1.2V to 6.0V (selectable in 100mV steps)
- Highly Accurate:  $\pm 2\%$
- Dropout Voltage : 160mV @ 100mA (3.0V type)
- Low Power Consumption : 8.0 $\mu$ A (TYP.)
- Maximum Output Current : 300mA ( $V_{in} \geq V_{out} + 1V$ )
- Internal protector: current limiter and short protector
- Maximum Operating voltage: 7V
- Small packages: SOT-89-3, SOT-23 and other required

### Package

- SOT-89-3L
- SOT-23-3L, SOT-23-3B

Designator	Symbol	Description	Designator	Symbol	Description
①	50	Indicates the product number	④	1/2	Output Voltage Accuracy 1: $\pm 1\%$ ; 2: $\pm 2\%$
②	P	Type of regulator 3-pin	⑤	M	SOT-23-3L
				V	SOT23-3B
				P	SOT-89-3
③	12-60	Output Voltage e.g. 30:3.0V; 50:5.0V	⑥	R	Embossed Tape :Standard Feed
				L	Embossed Tape :Reverse Feed

### Pin Configuration



Pin Number		Pin Name	Function
SOT-23-3L/B	SOT-89-3L		
3	2	VIN	Supply Power
1	1	VSS	Ground
2	3	VOUT	Voltage Pin