

Features

- Low voltage drop: 0.26V@100mA
- High input voltage: 15V
- Low temperature coefficient
- Large Output Current: >0.5A

Applications

- Battery-powered equipment
- Hand-Hold Equipment

- Low Quiescent Current: 2.0uA
- Output voltage accuracy: tolerance $\pm 2\%$
- Built-in current limiter
- SOT23-3 package
- GRS Receivers
- Wireless LAN

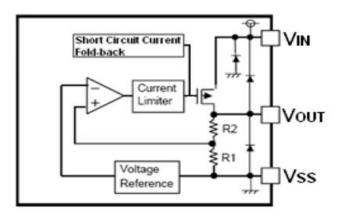
General Description

The SSP6202 series is a group of positive voltage output, three-pin regulators, that provide a high current even when the input/output voltage differential is small. Low power consumption and high accuracy is achieved through CMOS and laser trimming technologies. The SSP6202 consists of a high-precision voltage reference, an error amplification circuit, and a current limited output driver. Transient response to load variations have improved in comparison to the existing series. SOT23-3 packages is available.

Selection Table

Part No.	Output Voltage	Package	Marking
SSP6202P252MR	2.5V		24TX
SSP6202P282MR	2.8V		24XX
SSP6202P302MR	3.0V		24ZX
SSP6202P332MR	3.3V	SOT23-3	252X
SSP6202P362MR	3.6V	50125-5	255X
SSP6202P402MR	4.0V		259X
SSP6202P452MR	4.5V		25EX
SSP6202P502MR	5.0V		25MX

Block Diagram





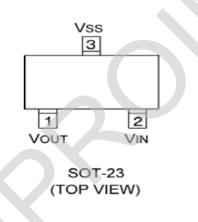
Order Information

SSP6202P12345

Designator	Symbol	Description
1 2	Integer	Output Voltage(2.1V~5.0V)
3	2	Output voltage accuracy: tolerance ±2%
4	М	Package:SOT89
	R	RoHS / Pb Free
(5)	G	Halogen Free

Note:"(1)2)" stands for output voltages. Other voltages can be specially customized

Pin Assignment



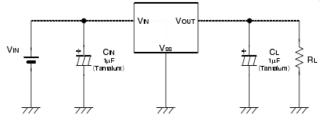
Absolute Maximum Ratings

 Supply Voltage-0.3V to 18V
 Storage Temperature-40°C to 125°C

 Operating Temperature-40°C to 85°C

Note: These are stress ratings only. Stresses exceeding the range specified under "Absolute Maximum Ratings" may cause substantial damage to the device. Functional operation of this device at other conditions beyond those listed in the specification is not implied and prolonged exposure to extreme conditions may affect device reliability.

Typical Application



Note1:Input capacitor C_{IN}=1uF. Note2:Ouput capacitor C_{OUT}=1uF/6.8uF(1uF Tantalum capacitor or 6.8uF ceramic capacitor is recommended).



SSP6202 150mA LowPower LDO

Electrical Characteristics

SSP6202 for a	any output voltage
---------------	--------------------

SSP6202 for any output voltage (Ta=25						(Ta=25°C)
Parameter	Symbol	Conditions Min. Typ. Max.		Max.	Unit	
Output Voltage	Vout	Vin=Vout+1V 1.0mA≤lout≤30mA Vout×0.98 Vout×1.		Vout×1.02	V	
Output Current*1	lout	Vin-Vout=1V		150		mA
Low dropout*2	Vdrop	Refer to the next table				
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$	1.6V≤Vin≤8V Iout=100mA		0.05	0.2	%/V
Load Regulation	riangleVout	Vin= Vout+1V 1.0mA≤lout≤100mA		12	30	mV
Output voltage Temperature Coefficiency	$\frac{\Delta V_{OUT}}{\Delta Ta}$	lout=30mA 0°C≤Ta≤70°C		±100		Ppm/°C
PSRR	PSRR	F=1KHz Vin=Vout+1V		40		dB
Supply Current	lss1			2		uA
Input Voltage	Vin				15	V

Electrical Characteristics by Output Voltage:

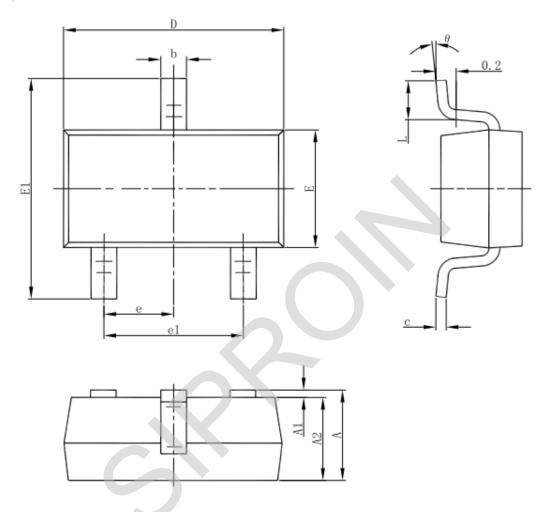
	Dropout Voltage Vdif (V)			
Output Voltage Vout(V)	Conditions	Тур.	Max.	
Vout ≤ 2.0V	lout=60 mA	0.1	0.12	
2.0 < Vout ≤ 3.0	lout=80 mA	0.12	0.14	
3.0 < Vout ≤ 4.0		0.16	0.18	
lout=100 mA 4.0 < Vout ≤ 5.0		0.17	0.18	

3



Package Information

3-pin SOT23-3 Outline Dimensions



Sumbal	Dimensions In Millimeters		Dimensions	In Inches
Symbol	Min	Max	Min	Max
Α	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.300	0.500	0.012	0.020
С	0.100	0.200	0.004	0.008
D	2.820	3.020	0.111	0.119
E	1.500	1.700	0.059	0.067
E1	2.650	2.950	0.104	0.116
е	0.950(BSC)		0.037(BSC)	
e1	1.800	2.000	0.071	0.079
L	0.300	0.600	0.012	0.024
θ	0°	8°	0°	<mark>8</mark> °

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for LDO Voltage Regulators category:

Click to view products by Siproin manufacturer:

Other Similar products are found below :

AP7363-SP-13 L79M05TL-E AP7362-HA-7 PT7M8202B12TA5EX TCR3DF185,LM(CT TCR3DF45,LM(CT TLE4473G V52 059985X NCP4687DH15TIG 701326R NCV8170AXV250T2G SCD337BTG AP7315-25W5-7 AP2111H-1.2TRG1 ZLDO1117QK50TC AZ1117ID-ADJTRG1 TCR3DG12,LF MIC5514-3.3YMT-T5 SCD7912BTG NCP154MX180270TAG SCD33269T-5.0G NCV8170BXV330T2G NCV8170BMX330TCG NCV8170AMX120TCG NCP706ABMX300TAG NCP153MX330180TCG NCP114BMX075TCG MC33269T-3.5G CAT6243-ADJCMT5T TCR3DG33,LF TCR4DG35,LF TAR5S15U(TE85L,F) TAR5S18U(TE85L,F) TCR3UG19A,LF TCR4DG105,LF MPQ2013AGG-5-P NCV8170AMX360TCG TLE4268GSXUMA2 NCP715SQ15T2G MIC5317-3.0YD5-T5 NCV563SQ18T1G NCP715MX30TBG NCV8702MX25TCG NCV8170BXV120T2G MIC5317-1.2YD5-T5 NCV8170AMX150TCG NCV8170BMX150TCG AP2213D-3.3TRG1 NCV8170BMX120TCG NCV8170BMX310TCG