

### General Description

The constant current source BIAS\_v1 provides a temperature and supply voltage independent sinking current of app. 2.5µA for internal biasing proposes.

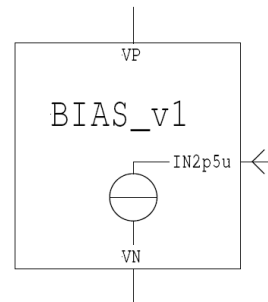
### Ratings, Parameters and Conditions

Parameter / Condition	Symbol	Min	Typ.	Max	Unit	Comment
<b>Electrical Parameters:</b>						
Supply Voltage	V <sub>dd</sub>	4.75	5	5.25	V	
Supply Current	I <sub>dd</sub>	25	40	65	µA	
Constant sinking current	I <sub>BIAS</sub>	1.86	2.2	2.75	µA	
Temp. Coeff. I <sub>BIAS</sub>	TC <sub>BIAS</sub>			300	ppm/K	
<b>Absolute Maximum Ratings:</b>						
Operating Temperature	T <sub>range</sub>	-40		120	°C	
Supply Voltage	V <sub>dd</sub>	-0.3		7	V	
<b>Operating Conditions:</b>						
Ambient Temperature	T <sub>amb</sub>	-20	27	80	°C	

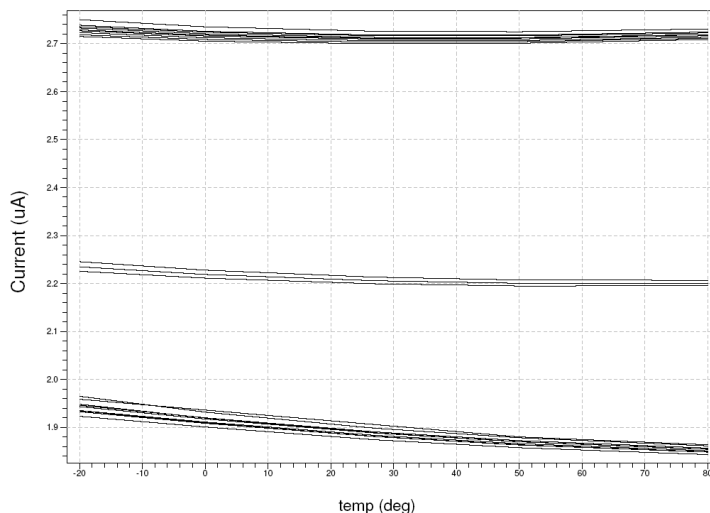
### IO-Description

Interface	I/O	Function	Comment
VP	InOut	supply	
VN	InOut	ground	
IN2p5u	InOut	Bias current	sinking

### Symbol



### Simulation Results



Bias current versus temperature over processes and VDD = 4.75 / 5 / 5.25 V