



Features

- Low ripple 10mVpp
- On-board reference source
- Easy adjustment
- Shielded, HF safe package
- 200 V maximum voltage

Description

Precision regulated power module for PIN diodes with low ripple in compact package. Output voltage to be set by external control voltage.

Application

- High voltage for PIN-PD
- High voltage for APD

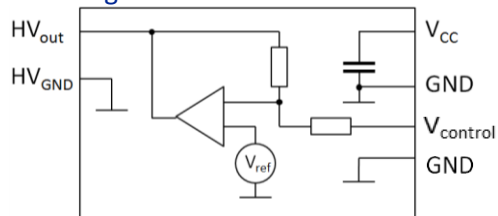
RoHS

2011/65/EU

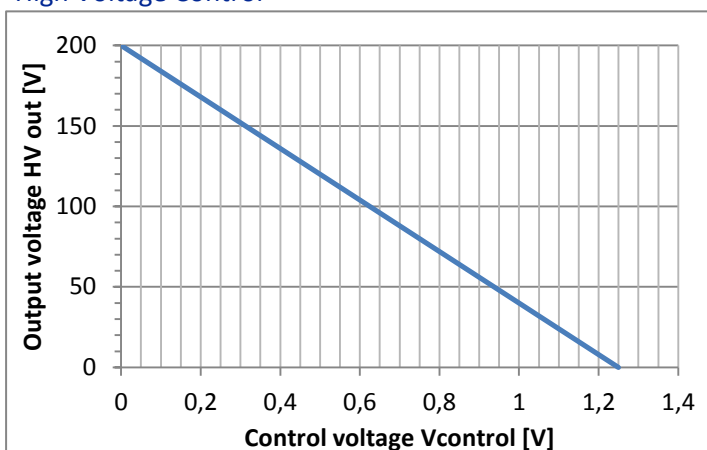
Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T_{STG}	Storage temp	-10	125	°C
T_{OP}	Operating temp	-10	70	°C
V_{CC}	Supply Voltage	4.75	5.5	V

Block diagram



High Voltage Control



Electrical characteristics @ 23°C

Symbol	Characteristic	Test Condition	Min	Typ	Max	Unit
V_{CC}	Input voltage		+4.75	+5.0	+5.5	V
	Input current w/o load	$V_{CC} = 5\text{ V}$, $V_{control} = 0$, without R_{load}		29		mA
	Input capacitance			30		μF
$V_{control}$	Control voltage	$HV_{out} = 200\text{ V} \dots 0\text{ V}$	0		1.244	V
V_{REF}	Internal reference voltage			1.244		V
	Set point accuracy		1			%
T_K	Temperature coefficient			50		ppm/K
	Ripple	peak to peak		10	15	mVpp
	Short circuit protected			5		s
HV_{out}	Output voltage	$V_{CC} = 5\text{ V}$, $V_{control} = 0$ (for max HV_{out}), $V_{control} = 1.244\text{ V}$ (for min HV_{out})	0		200	V
	Output current				0.5	mA

European, International Sales:



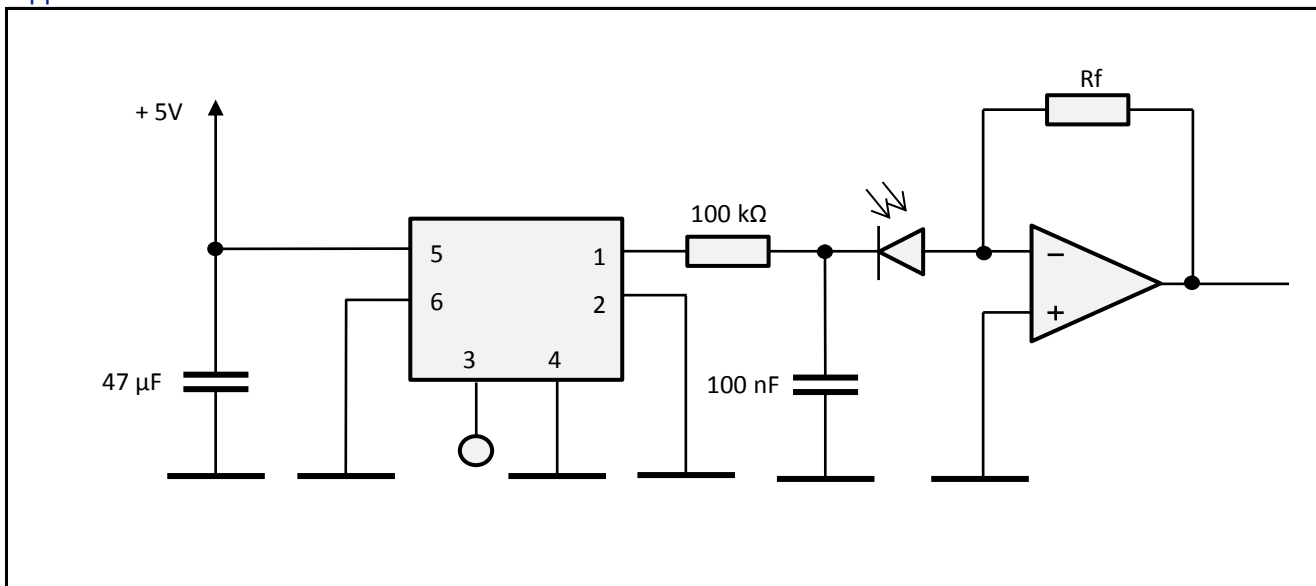
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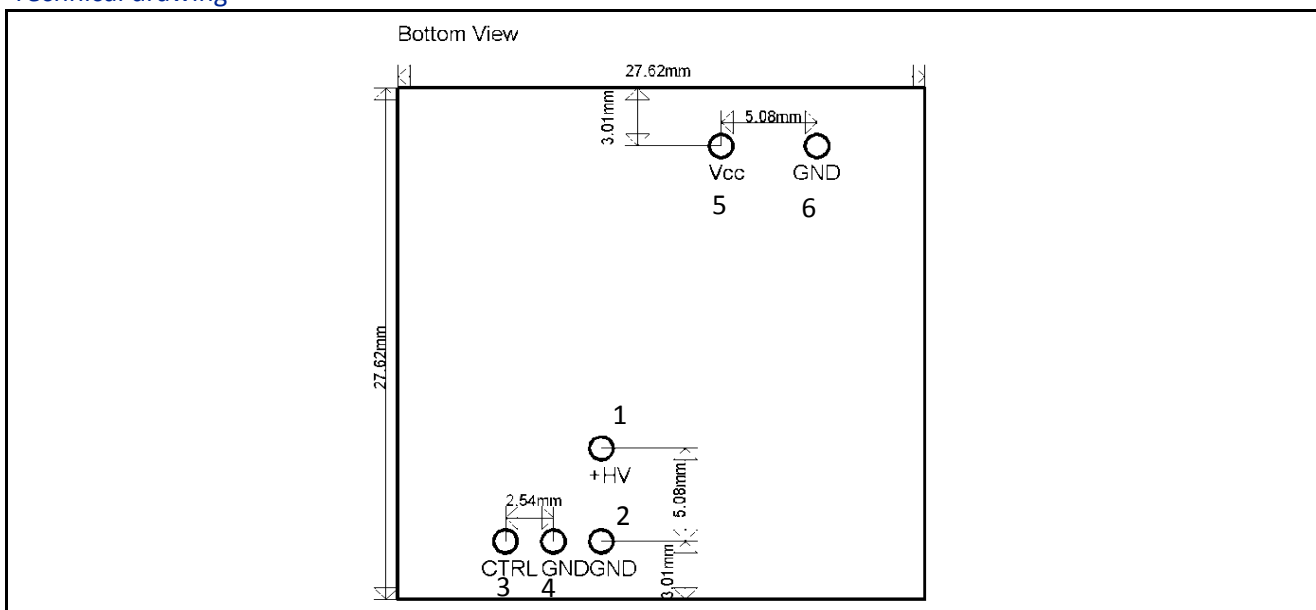


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Application hints



Technical drawing



Mechanical characteristics

Parameter	Parameter	Unit
Length	27.6	mm
Width	27.6	mm
Height	5.6*	mm
Volume	3.8	cm ³
Weight	10	g
Case material	Tinplate	

* will be reduced to 5 mm for series production

Pin connections

Part	Symbol	Function
1	HV _{out}	High voltage output
2	GND	High voltage ground
3	V _{control}	Control voltage
4	GND	Control voltage ground
5	Vcc	Input voltage
6	GND	Input voltage ground

Disclaimer: Due to our strive for continuous improvement, specifications are subject to change within our PCN policy according to JESD46C.

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