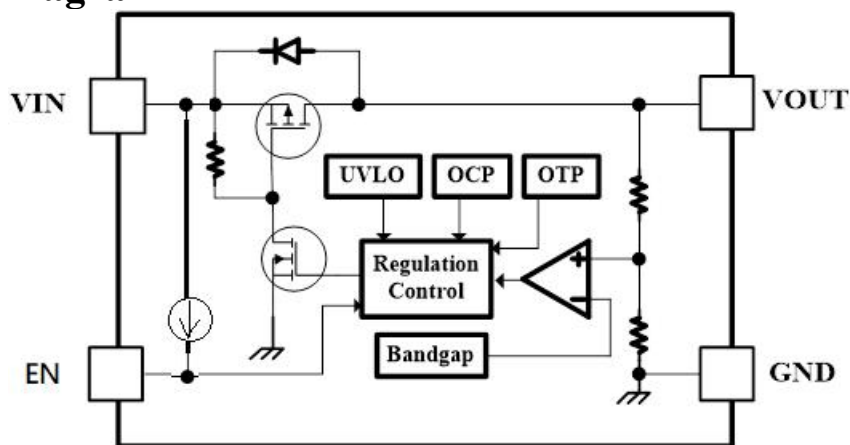


Pin Assignment

Pin Name	Pin No. u\	Pin No. SOT23-5	Pin No. SOT-223 SOT	Pin No. SOT-223 SOT	Pin No. SOT23-3	Pin No. SOT23-3	Pin No. -o\ h	Pin Function
VOUT	1	5	3	3	2	2	3	Output Voltage Pin
GND	2	2	2,4	1	3	1	7,9	Ground
VIN	3	1	1	2,4	1	3	1	Input Voltage pin.
EN	--	3	--	--	--	--	8	Enable

Function Block Diagram



Absolute Maximum Ratings (Note1)

- V_{IN} ----- -0.3V to +28V
- Junction Temperature----- 125°C
- Lead Temperature (Soldering, 10 sec.)----- 300°C
- Storage Temperature ----- -65°C to 150°C

Recommended Operating Conditions

- Input Voltage, V_{IN} ----- +2.7V to +24V
- Junction Temperature ----- -40°C to 125°C

Electrical Characteristics

$V_{IN}=12V$, $I_{OUT}=1mA$, $C_{IN}=C_{OUT}=1\mu F$, $T_J=25^\circ C$, unless otherwise specified

Parameter	Symbol	Test Conditions	Min	Typ	Max	Units
Output Voltage	V_{OUT}		-2%		2%	V
Line Regulation	ΔV_{LINE}	$V_{IN}=V_{OUT} + 1V$ to 24V,		2	12	mV
Load Regulation	ΔV_{LOAD}	$I_{OUT}= 1mA$ to 100mA		20	30	mV
		$I_{OUT}= 1mA$ to 500mA		100	160	
Dropout Voltage	V_{DROP}	$I_{OUT}=100mA$		400		mV
		$I_{OUT}=500mA$		2400		mV
Quiescent Current	I_Q	$T_J= 25^\circ C$		1.5	4.0	uA
Current Limit	I_{CL}		520	620		mA
Enable high level	V_{ENHI}		1.0			V
Enable low level	V_{ENLO}				0.3	V
Enable pin pull high current	I_{EN}			0.1		uA
Thermal Shutdown	T_{SD}			140		°C
Thermal Shutdown Hysteresis	T_{HY}			20		°C
Power supply rejection ratio	PSRR	f=1kHz		80		dB
		f=10kHz		60		dB



Fig 7 Vout Load Transient (10 to 500mA)



Fig 8 Vout Load Transient (100 to 500mA)

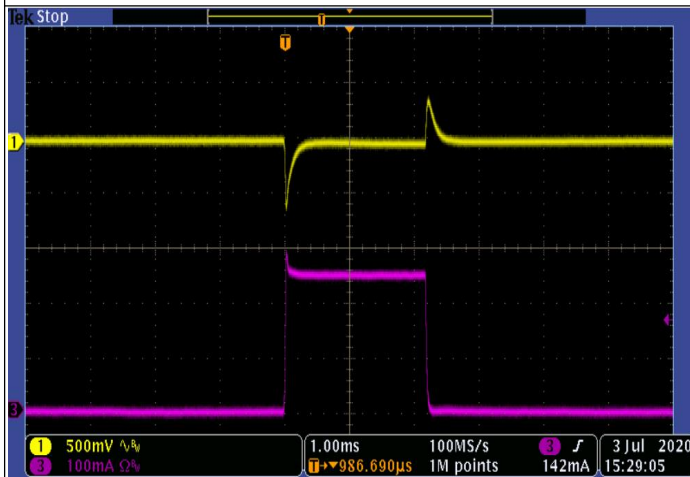


Fig 9 Vout Load Transient (1 to 250mA)

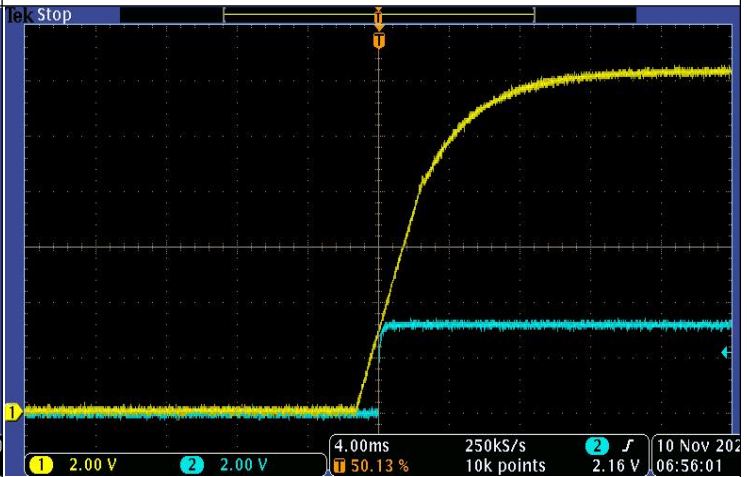


Fig 10 Vin Start up

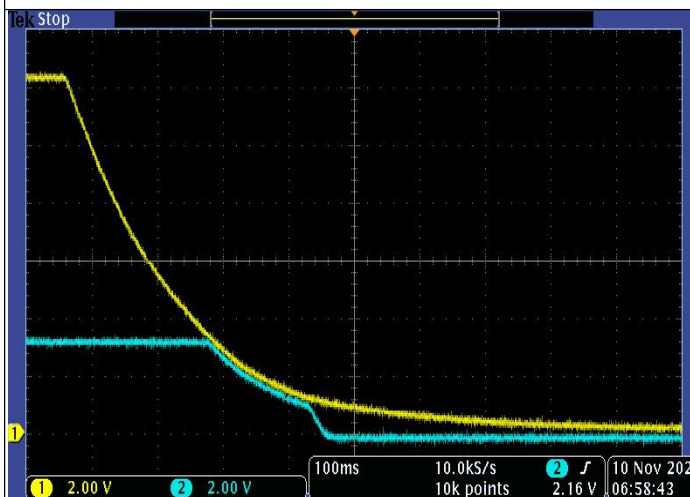


Fig 11 Vin power off



Fig 12 Vout Short to GND