

1

TI Home > Search results

LM5018

Advanced search

Everything Products Technical documents Support Cross reference

1-10 of about 274

- LM5018 7.5-100V Wide Vin, 300mA Constant On-Time Synchronous Buck Regulator | TI.com**
http://www.ti.com/product/lm5018
The LM5018 is a 100-V, 300-mA synchronous step-down regulator with integrated high-side and low-side MOSFETs. ... LM5018 (ACTIVE). ...
- PMP20814 3.75W Single Output Industrial PoE Isolated Flyback Reference Design | TI.com**
http://www.ti.com/tool/PMP20814?keyMatch=&tisearch=tidesigns
PMP20814 is an isolated Flyback converter utilizing the LM5018 for industrial applications. -TPMP20814|en|3.75W Single ...
- LM5018ISOEVAL LM5018 Isolated Bias Supply Evaluation Board | TI.com**
http://www.ti.com/tool/lm5018isoeval
... LM5018 Isolated Bias Supply Evaluation Board. ... LM5018ISOEVAL/NOPB: LM5018 Isolated Bias Supply Evaluation Board. \$29.00(USD). ...
[See more results from www.ti.com/tool](#)

Support for LM5018

- LM5018 100V, 300mA Constant On-Time Synchronous Buck Regulator (Rev. G)**
http://www.ti.com/general/docs/lit/getliterature.tsp?genericPartNumber=lm5018&fileType=pdf
... LM5018 100-V, 300-mA Constant On-Time Synchronous Buck Regulator 1 Features 3 Description ... SW RTN BST 1.225V VILIM LM5018 RON ILIM ...

LM5018 (ACTIVE)
7.5-100V Wide Vin, 300mA Constant On-Time Synchronous Buck Regulator



Download datasheet Online datasheet

- Order Now
- Technical documents
- Description & parametrics
- Support & training

WEBENCH® Designer LM5018

	Min	Max	Range	
Vin	<input type="text" value="14.0"/>	<input type="text" value="75.0"/>	V	9.0 to 100.0V
Vout		<input type="text" value="10.0"/>	V	1.25 to 90.0V
Iout		<input type="text" value="0.3"/>	A	≤ 0.3A
Ambient Temp	<input type="text" value="30"/>		°C	-40.0 to 125.0°C
			Footprint	BOM Cost
			<input type="text" value="219mm²"/>	<input type="text" value="\$2.14"/>
			Efficiency	<input type="text" value="69%"/>

Open Design Preview Design

2



TI Home > Semiconductors > Power Management > Non-isolated DC/DC Switching Regulator > Step-Down (Buck) > Buck Converter (Integrated Switch) >

LM5018 (ACTIVE) 7.5-100V Wide Vin, 300mA Constant On-Time Synchronous Buck Regulator

LM5018 100-V, 300-mA Constant On-Time Synchronous Buck Regulator datasheet (Rev. G)

In English

Alert me

Description & parameters Online datasheet Technical documents Tools & software Order Now Compare Quality & packaging Support & training

Description | Features | Parameters | Diagrams | Related end equipment | Complete your design

Description

The LM5018 is a 100-V, 300-mA synchronous step-down regulator with integrated high-side and low-side MOSFETs. The constant-on-time (COT) control scheme employed in the LM5018 device requires no loop compensation, provides excellent transient response, and enables very low step-down ratios. The on-time varies inversely with the input voltage resulting in nearly constant frequency over the input voltage range. A high-voltage startup regulator provides bias power for internal operation of the IC and for integrated gate drivers.

A peak current limit circuit protects against overload conditions. The undervoltage lockout (UVLO) circuit allows the input

Features

- Wide 7.5- to 100-V Input Range
- Integrated 300-mA High-Side and Low-Side Switches
- No Schottky Required
- Constant On-time Control

View more

Parameters

Compare all products in Buck Converter (Integrated Switch)

	LM5018	LM25011	LM5017	LM5165	LM5166
Vin (Min) (V)	7.5	6	7.5	3	3
Vin (Max) (V)	100	42	100	65	65
Vout (Min) (V)	1.25	2.51	1.25	1.23	1.23
Vout (Max) (V)	90	40	90	65	65
Iout (Max) (A)	0.3	2	0.65	0.15	0.5
Regulated Outputs (#)	1	1	1	1	1
Switching Frequency (Min) (kHz)	50	50	50	50	50
Switching Frequency (Max) (kHz)	1000	2000	1000	600	600
Iq (Typ) (mA)	1.75	1.2	1.75	0.01	0.01
Special Features	Synchronous Rectification UVLO Adjustable	Adjustable Current Limit	Synchronous Rectification UVLO Adjustable	Adjustable Current Limit Enable Light Load Efficiency Power Good Pre-Bias Start-Up Synchronous Rectification UVLO Adjustable	Adjustable Current Limit Enable Light Load Efficiency Power Good Pre-Bias Start-Up Synchronous Rectification UVLO Adjustable
Control Mode	Constant on-time (COT)	Constant on-time (COT)	Constant on-time (COT)	Constant on-time (COT)	Constant on-time (COT)
Duty Cycle (Max) (%)	90	99	90	100	100
Operating Temperature Range (°C)	-40 to 125	-40 to 125	-40 to 125	-40 to 150	-40 to 150

Reference designs selected for you

- 48W/10A High Frequency PWM 3-Phase GaN Inverter Reference Design for High-Speed Drives
- 16-Channel Active Cell Balance Reference Design
- 48V 3-Phase Inverter with Shunt-based In-line Motor Phase Current Sensing Reference Design
- 75W/10A Protected Full-Bridge Power Stage Reference Design for Brushed DC Drives
- 75W/10A Protected Full-Bridge Power Stage Reference Design for Bipolar Stepper Drives

WEBENCH® Designer LM5018

	Min	Max	Range
Vin	24	60	9.00 to 100.00V
Vout	5		1.25 to 90.00V
Iout	0.15		≤ 0.3A
Ambient Temp	30		°C ≤ 100°C

Isolated Output

Open Design Simulate Now

What are WEBENCH® tools?