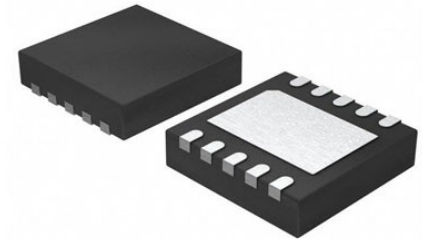


36Vin 300mA Synchronous Switching Regulator - 3x3 8ld TDFN P HT SUS4
 CODE:8542390000

Manufacturers	Renesas Technology Corp
Package/Case	TDFN-8
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ISL85413FRTZ-T or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ISL85413 is a 300mA synchronous buck regulator with an input range of 3.5V to 40V. It provides an easy to use, high efficiency low BOM count solution for a variety of applications. The ISL85413 integrates both high-side and low-side NMOS FETs and features a PFM mode for improved efficiency at light loads. This feature can be disabled if forced PWM mode is desired. The part switches at a default frequency of 700kHz. By integrating both NMOS devices and providing internal configuration, minimal external components are required, reducing BOM count and complexity of design. With the wide VIN range and reduced BOM, the part provides an easy to implement design solution for a variety of applications while giving superior performance. It will provide a very robust design for high voltage industrial applications as well as an efficient solution for battery powered applications. The part is available in a small Pb-free 3mmx3mm TDFN plastic package with an operation junction temperature range of -40°C to +125°C.

Features

Wide input voltage range of 3.5V to 40V

Synchronous operation for high efficiency

No compensation required

Integrated high-side and low-side NMOS devices

Selectable PFM or forced PWM mode at light loads

Internal switching frequency 700kHz

Continuous output current up to 300mA

Internal soft-start

Minimal external components required

Power-good and enable functions available Applications

Related Products



[ISL9585SHRTZ-T](#)

Renesas Technology Corp
48pin-TQFN



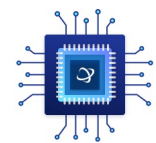
[ISL99380FRZ-TR5935](#)

Renesas Technology Corp



[ISL69125IRAZ-T](#)

Renesas Technology Corp
40-TQFN



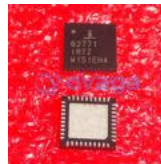
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[ISL69127IRAZ-T](#)

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QFN 48



[ISL62771IRTZ-T](#)

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TQFN-40



[ISL95855IRTZ-T](#)

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TQFN



[ISL68137IRAZ](#)

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48-QFN