

High Performance 2A Linear Regulator; Temperature Range: Full-Range Industrial; Package: 10 Ld DFN

Manufacturers	Renesas Technology Corp
Package/Case	DFN10
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ISL80102IRAJZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ISL80102 and ISL80103 are low voltage, high-current, single output LDOs specified for 2A and 3A output current, respectively. These LDOs operate from the input voltages of 2.2V to 6V and are capable of providing the output voltages of 0.8V to 5.5V on the adjustable VOUT versions. Other custom voltage options are available upon request.

An external capacitor on the soft-start pin provides adjustment for applications that demand inrush current less than the current limit. The ENABLE feature allows the part to be placed into a low quiescent current shutdown mode. A submicron BiCMOS process is used for this product family to deliver best-in-class analog performance and overall value.

These CMOS (LDOs) consume significantly lower quiescent current as a function of load over bipolar LDOs, so they are more efficient and allow packages with smaller footprints. The quiescent current has been modestly compromised to enable a leading class fast load transient response, and hence a lower total AC regulation band for an LDO in this category.

Features

Stable with ceramic capacitors

2A and 3A output current ratings

2.2V to 6V input voltage range

OUT

Very low 120mV dropout voltage at 3A (ISL80103)

Very fast transient response

Excellent 62dB PSRR

49 μ V

RMS

Power-good output

Adjustable inrush current limiting

Short-circuit and over-temperature protection

Available in a 10 Ld DFN

Related Products



[ISL6262ACRZ](#)

Renesas Technology Corp
QFN-48



[ISL21080CIH315Z-TK](#)

Renesas Technology Corp
SOT-23-3



[ISL6377HRZ-T](#)

Renesas Technology Corp
QFN-48



[ISL62771HRTZ](#)

Renesas Technology Corp
QFN40



[ISL6294IRZ-T](#)

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QFN-8



[ISL6506BCBZ](#)

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SOP-8



[ISL62771HRTZ-T](#)

Renesas Technology Corp
40- WFQFN Exposed Pad



[ISL95808HRZ-T](#)

Renesas Technology Corp
DFN-8