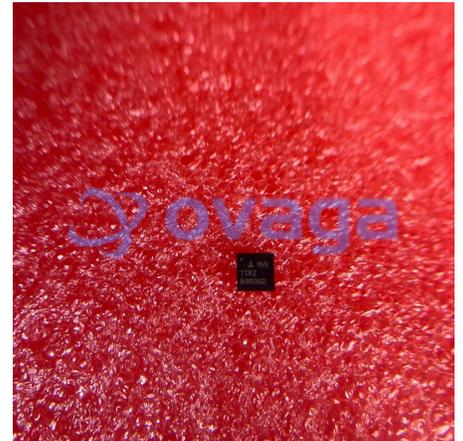


xDSL Differential Line Driver IC, VDSL2, ADSL, Dual Op Amp, 300MHz Bandwidth, 4.5 V to 12 V, QFN-16

Manufacturers	Renesas Technology Corp
Package/Case	QFN-16
Product Type	Interface ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ISL1557IRZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ISL1557 is a dual operational amplifier designed for VDSL2 and ADSL line driving in DMT based solutions. This device features a high drive capability of 750mA while consuming only 6mA of supply current per amplifier and operating from a single 4.5V to 12V supply. The driver achieves a typical distortion of -80dBc at 150kHz into a 25Ω load.

The ISL1557 is available in the thermally-enhanced 16 Ld QFN and 10 Ld HMSOP package and is specified for operation across -40°C to +85°C (IRZ, IUEZ) or -40°C to +125°C (FRZ) temperature ranges. The ISL1557 has control pins C0 and C1 for controlling the bias and enable/disable of the outputs. These controls allow for lowering the power to fit the performance/power ratio for the application.

The ISL1557 is ideal for ADSL2+, SDSL, HDSL2, and VDSL line driving applications, including both 14.5dBm and 21 dBm applications.

Features

Full-range industrial temperature (FRZ only): -40°C to +125°C

21dBm output power capability

Drives up to 750mA from a +12V supply

20V_{P-P} differential output drive into 21Ω

-80dBc typical driver output distortion at full output at 150kHz

-75dBc typical driver output distortion at 4MHz

-71dBc typical driver output distortion at 10MHz

-75dBc typical driver output distortion at 17MHz

Low quiescent current of 6mA per amplifier

Supply range

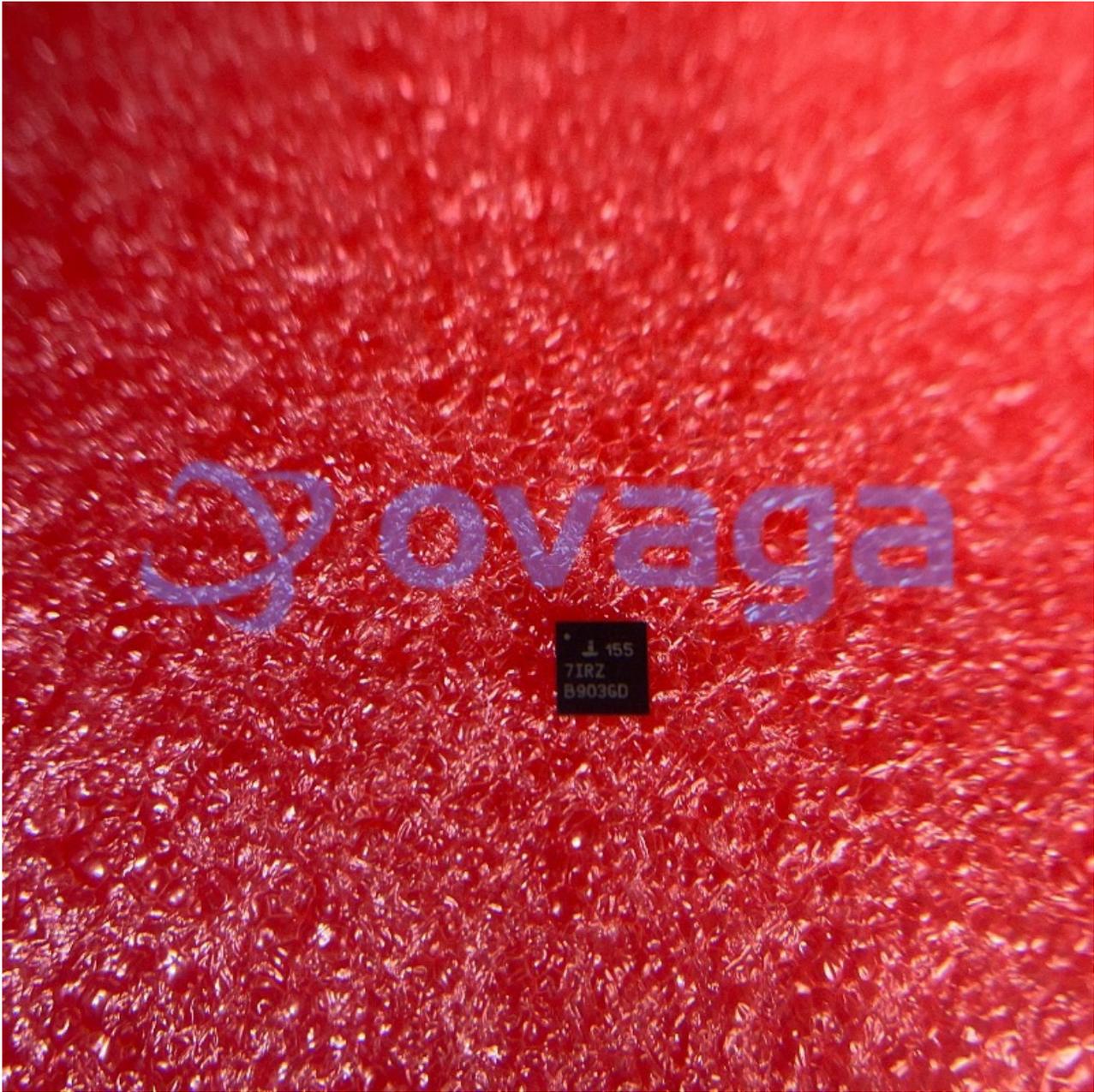
ISL1557IRZ, ISL1557FRZ: ±2.25V to ±6V, 4.5V to 12V

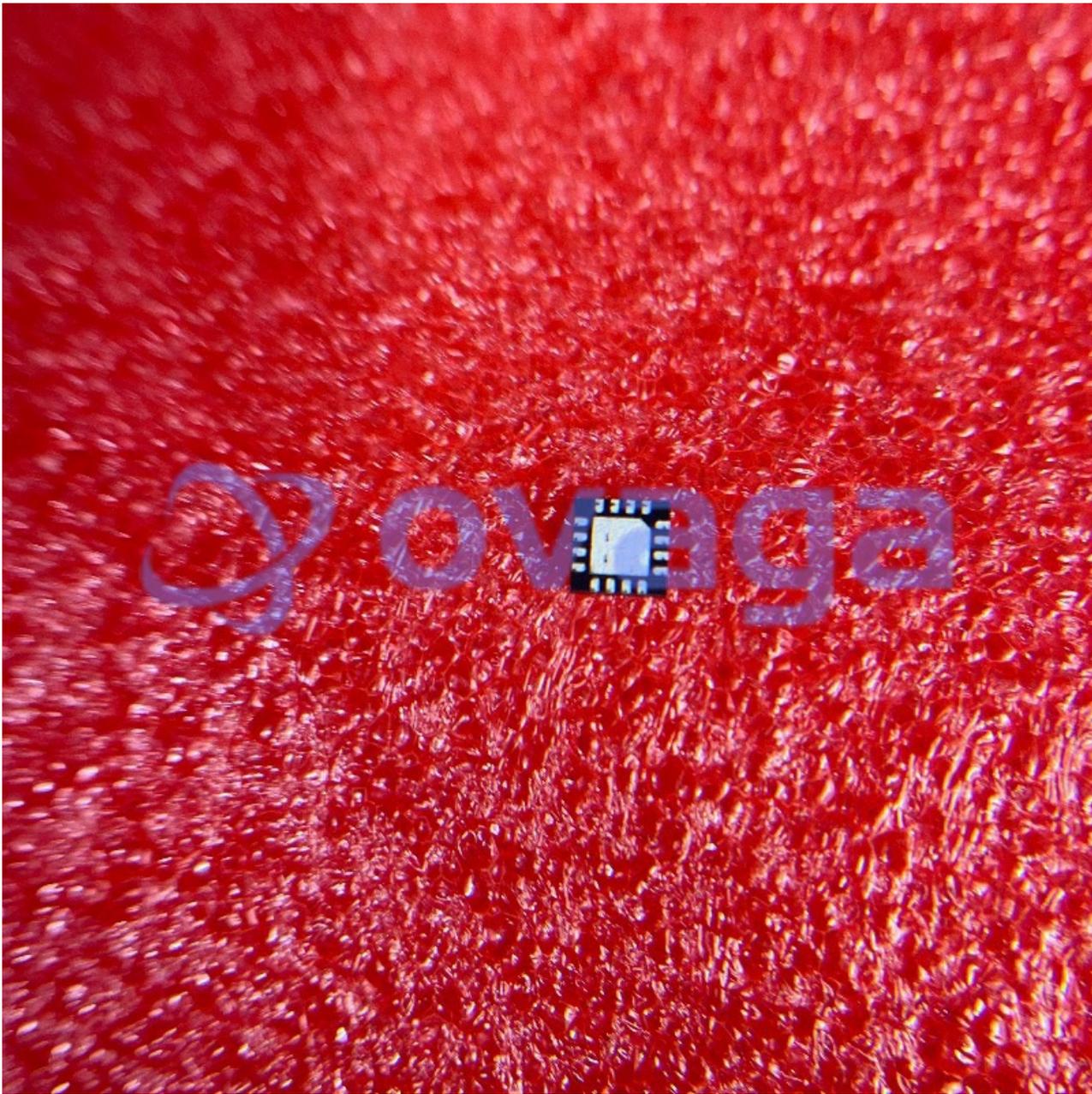
ISL1557IUEZ: 4.5V to 12V

300MHz bandwidth

Thermal shutdown

Pb-free (RoHS compliant)





Related Products



[ISL83491IBZ](#)

Renesas Technology Corp
SOIC-14



[ISL3170EIUZ](#)

Renesas Technology Corp
MSOP-10



[ISL99227FRZ-T](#)

Renesas Technology Corp
32-PowerWFQFN



[ISL83078EIBZA](#)

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[ISL83072EIBZA](#)

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[IS82C55AZ](#)

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PLCC-44



[ISL83387EIVZ](#)

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TSSOP-24