

## Voltage Regulator 40-Pin QFN EP T/R

**Manufacturer:** [Renesas Technology Corp](#)

**Package/Case:** QFN40

**Product Type:** Power Management ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

ISL95837HRZ-T Image

Images are for reference only

[Inquiry](#)

## General Description

Compliant with IMVP-7/VR12™, the ISL95835 provides a complete solution for microprocessor and graphic processor core power supply. It provides two Voltage Regulators (VRs) with three integrated gate drivers. The first VR can be configured as 3-, 2- or 1-phase VR while the second output is 1-phase VR, providing maximum flexibility. The two VRs share the serial control bus to communicate with the CPU and achieve lower cost and smaller board area compared with the two-chip approach. Based on Intersil's Robust Ripple Regulator (R3) technology™, the PWM modulator compared to traditional modulators, has faster transient settling time, variable switching frequency during load transients and has improved light load efficiency with its ability to automatically change switching frequency. The ISL95835 has several other key features. Both outputs support DCR current sensing with single NTC thermistor for DCR temperature compensation or accurate resistor current sensing. Both outputs come with remote voltage sense, programmable VBOOT voltage, programmable I<sub>MAX</sub>, T<sub>MAX</sub>, adjustable switching frequency, OC protection and separate Power-Good. The ISL95837 can be considered as ISL95835 dedicated for 1+1 application. VR1 and VR2 are both 1-phase VR.

## Key Features

Serial Data Bus

Dual Outputs:

Configurable 1-phase for the 1st Output using an integrated Gate Driver

1-phase for the 2nd Output using an Integrated Gate Driver

0.5% System Accuracy Over-Temperature

Supports Multiple Current Sensing Methods

Lossless Inductor DCR Current Sensing

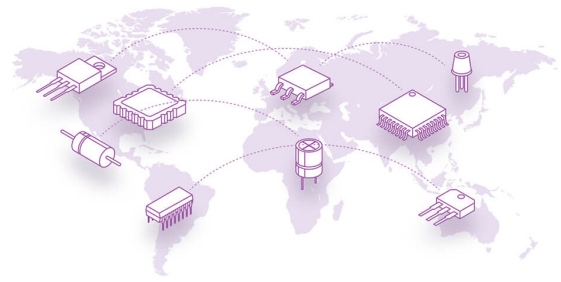
Precision Resistor Current Sensing

Differential Remote Voltage Sensing

Programmable V<sub>BOOT</sub> Voltage at Start-up

Resistor Programmable I<sub>MAX</sub>, T<sub>MAX</sub> for Both Outputs

Adaptive Body Diode Conduction Time Reduction



## Recommended For You

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### **ISL83202IBZ**

Renesas Technology Corp

SOP16

### **ISL9492ERZ**

Renesas Technology Corp

QFN

### **ISL6520ACBZ-T**

Renesas Technology Corp

SOP8

### **ISL62883CHRIZ**

Renesas Technology Corp

QFN

### **ISL95836HRIZ-T**

Renesas Technology Corp

QFN40

### **ISL95837HRZ**

Renesas Technology Corp

QFN40

### **ISL9301HRZ**

Renesas Technology Corp

DFN10

### **ISL95835HRZ**

Renesas Technology Corp

QFN

### **ISL95812HRZ**

Renesas Technology Corp

QFN

### **ISL95870HRUZ-T**

Renesas Technology Corp

QFN16

### **ISL6521IBZ**

Renesas Technology Corp

SOP16

### **ISL62882CHRIZ**

Renesas Technology Corp

QFN

### **ISL95870BIRZ-T**

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QFN20

### **ISL78214ARZ**

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### **ISL88739HRZ**

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