

4-Phase PWM Controller for VR12.5 CPUs

| | |
|---------------|--|
| Manufacturers | Renesas Technology Corp |
| Package/Case | 32pin-QFN |
| Product Type | Power Management ICs |
| RoHS | |
| Lifecycle | |



Images are for reference only

Please submit RFQ for ISL95816HRZ-T or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ISL95816 Pulse Width Modulation (PWM) controller IC provides a complete solution for VR12.5™ compliant microprocessor core power supplies. It provides the control and protection for a Voltage Regulator (VR). The VR can operate in 4-, 3-, 2- or 1-phase configurations. The VR uses a serial control bus to communicate with the CPU and achieve lower cost and smaller board area. The VR utilizes Intersil's Robust Ripple Regulator R3 Technology™. The R3 modulator has numerous advantages compared to traditional modulators, including faster transient response, variable switching frequency during load transients, and improved light load efficiency due to its ability to automatically change switching frequency. The ISL95816 has several other key features. It supports either DCR current sensing with a single NTC thermistor for DCR temperature compensation, or more precise resistor current sensing if desired; remote voltage sense; programmable VBOOT voltage, IMAX, voltage transition slew rate and switching frequency; adjustable overcurrent protection; and Power-Good signal.

Features

Serial data bus

Configurable 4-, 3-, 2- or 1-phase

R3 Modulator

Excellent transient response

High light load efficiency

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_{BOOT} voltage at start-up

Resistor programmable I_{MAX} , V_{BOOT} , voltage transition slew rate and switching frequency

Adaptive body diode conduction time reduction

(P) CUST P/N: INVENTEC(NB)/ODM



(1P) RENESAS P/N: ISL95859CHRTZ-T



(1T) LOT NBR: V1UU60.1B1S



Product of TAIWAN

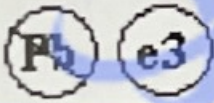
Chips from TAIWAN

(1D): 2126 (2D):

(Q)QTY: 6000 EA LLQ: 6000

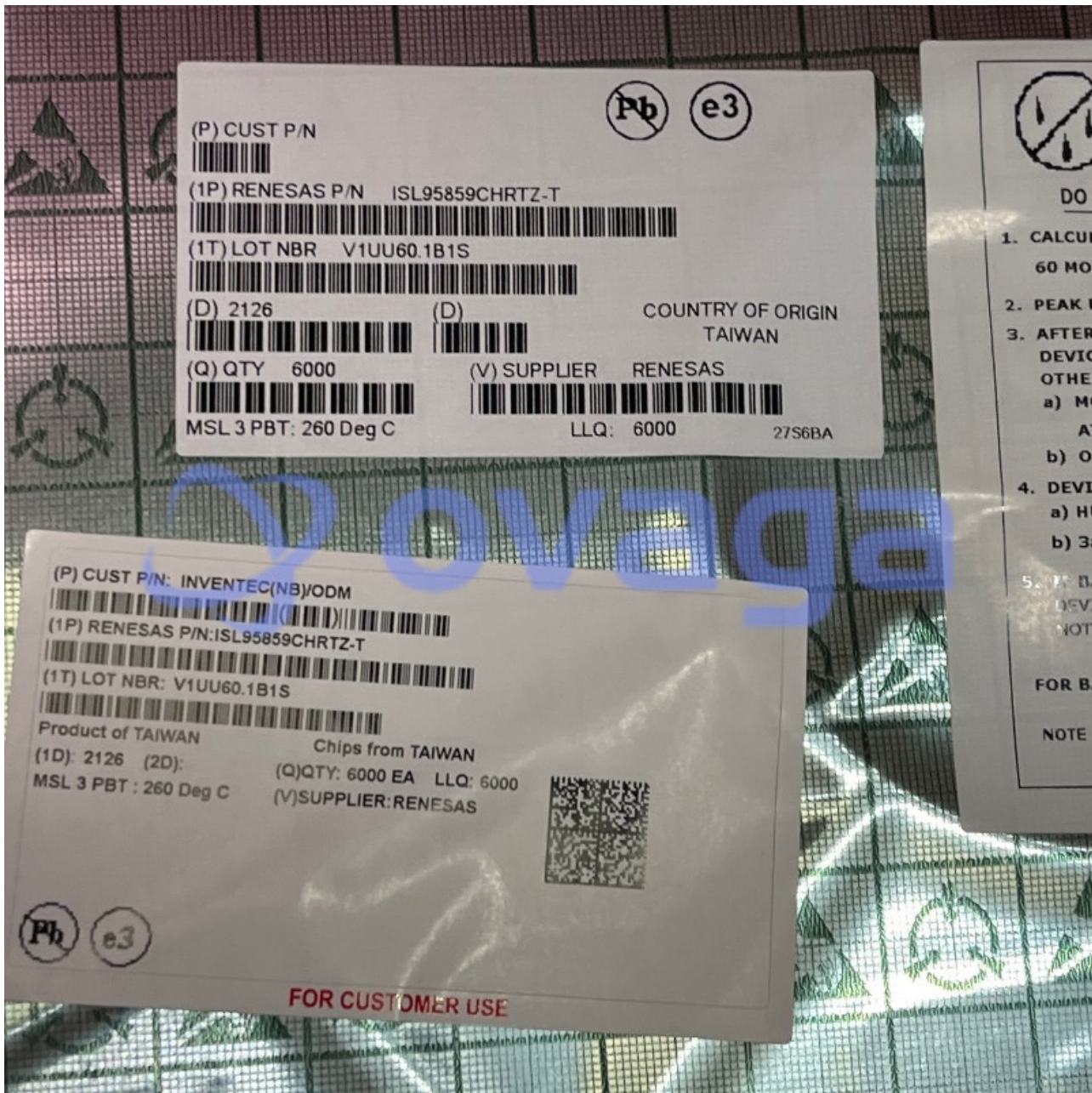
MSL 3 PBT : 260 Deg C

(V)SUPPLIER: RENESAS



ovaga

RENESAS



Related Products



[ISL6262ACRZ](#)

Renesas Technology Corp
QFN-48



[ISL6294IRZ-T](#)

Renesas Technology Corp
QFN-8



[ISL21080CIH315Z-TK](#)

Renesas Technology Corp
SOT-23-3



[ISL6506BCBZ](#)

Renesas Technology Corp
SOP-8



[ISL6377HRZ-T](#)

Renesas Technology Corp

QFN-48



[ISL62771HRTZ-T](#)

Renesas Technology Corp

40-WFQFN Exposed Pad



[ISL62771HRTZ](#)

Renesas Technology Corp

QFN40



[ISL95808HRZ-T](#)

Renesas Technology Corp

DFN-8