⊞ P/	ARAMETRIC SEARCH 🍣 CI	ROSS-REFERENCE 🚳 E	NVIRONMENTAL SEARCH	① LANGUAGE: EN	IG 中文	
intersil [®] Prod	UCTS APPLICATIONS	TOOLS SUPPO	DRT BUY & SAMPLE	ABOUT	Search Intersil.com	
Home > All Products > Power Mar	agement > Computing Powe	r VRM/IMVP > Multiphase	Controllers > ISL95818			
ISL95818	DATASHEET					
3-Phase PWM Controller for VR12.5 and VR12.6+ CPUs Request Full Datasheet						
OVERVIEW	V PARAMETRICS	DOCUMENTS	PACKAGING & ENVIRONMENTAL	RESOURCES)) 一) 一) 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一	

Key Features

- Serial data bus
- * Output configurable 3-, 2- or 1-phase using two integrated gate drivers
- Precision core voltage regulation
- 0.5% system accuracy over-temperature
- Enhanced load line accuracy
- * 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_{CCMAX} and voltage transition slew rate
- * Adaptive body diode conduction time reduction

Description

Fully compliant with Intel VR12.5 and VR12.6+ specifications, the ISL95818 provides a complete solution for microprocessor core power supply. It provides a Voltage Regulator (VR) with two integrated and one external gate drivers. The VR can be configured as 3-, 2- or 1-phase, providing maximum flexibility. The VR uses the serial control bus to communicate with the CPU and achieves lower cost and smaller board area.

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 ISL95818 has several other key features. The output supports DCR current sensing with single NTC thermistor for DCR temperature compensation or accurate resistor current sensing. The output comes with remote voltage sense, programmable VBOOT voltage, programmable I_{CCMAX}, programmable voltage transition slew rate, adjustable switching frequency, overcurrent protection and Power-Good output.

Applications

- Notebook computers
- Desktop computers

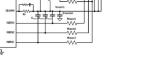
 Contact Us
 Follow Us

 Contact Sales & Distributors
 f

 Contact Support

Careers at Intersil Search for jobs

TYPICAL DIAGRAM



Purchase

Q ENLARGE

Parameters	ISL95818	ISL6261
V _{IN} (min) (V)	4.5	4.75
V _{IN} (max) (V)	25	24
V _{OUT} (min) (V)	0.5	0.3
V _{OUT} (max) (V)	2.3	1.5
l _{OUT} (max) (A)	90	50
V _{BIAS} (V)	4.75 to 5.25	
Applications	VR12.5 and VR12.6+™	IMVP-6
Max # of Outputs	1	
Max # of Phases	3	
VID	Yes	Yes
Droop	Yes	
Integrated MOSFET Driver(s)	Yes	

Devices

Part Number	Package Type	Weight(g)	Pins
ISL95818HRTZ	40 Ld TQFN	0.074	40
ISL95818HRTZ-T	40 Ld TQFN T+R	0.074	40
ISL95818IRTZ	40 Ld TQFN	0.074	40
ISL95818IRTZ-T	40 Ld TQFN T+R	0.074	40

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Switching Controllers category:

Click to view products by Renesas manufacturer:

Other Similar products are found below :

LV5065VB-TLM-H LV5066V-TLM-H LV5725JAZ-AH 633888R MP2908AGF AZ7500EP-E1 NCP1012AP133G NCP1217P133G NCP1218AD65R2G NCP1234AD100R2G NCP1244BD065R2G NCP1336ADR2G NCP1587GDR2G NCP6153MNTWG NCP81005MNTWG NCP81101BMNTXG NCP81205MNTXG HV9123NG-G-M934 IR35207MTRPBF ISL6367HIRZ CAT874-80ULGT3 SJ6522AG SJE6600 TLE63893GV50XUMA1 IR35215MTRPBF SG3845DM NCP1216P133G NCP1236DD65R2G NCP1247BD100R2G NCP1250BP65G NCP4202MNR2G NCP4204MNTXG NCP6132AMNR2G NCP81141MNTXG NCP81142MNTXG NCP81172MNTXG NCP81203MNTXG NCP81206MNTXG NX2155HCUPTR UC3845ADM UBA2051C IR35201MTRPBF MAX8778ETJ+ MAX17500AAUB+T MAX17411GTM+T MAX16933ATIR/V+ NCP1010AP130G NCP1063AD100R2G NCP1216AP133G NCP1217AP100G