SSC9510 Series

Controller IC for Current Resonant Type Switching Power Supply with Half-Bridge Resonance, High Efficiency and Low Noise

General Descriptions

The SSC9510 series products are controller ICs, incorporating a floating drive circuit for half-bridge type resonance. The product achieves high efficiency and low noise power supply systems by the ZVS and ZCS. The product is recommended for high-efficiency small and standardized power supplies because of easy circuit designs with few external components.

Features

- Soft-Switched Multi-Resonant Zero Current Switch (SMZ) The zero-current switching (ZSC) and zero-voltage switching (ZVS) of half-bridge type resonance achieve the high efficiency and low noise systems.
- Automatic Dead Time Adjustment Function for Wide Resonant Conditions
- Burst-Oscillation Function The function enables the stable output control at no load to light load conditions and improves the efficiency.
- Soft-Start Function
- Brown-In / Brown-Out Function

The function enables the oscillation start /stop by externally rated input voltage and makes protections at low input voltage.

- External Latch Protection (ELP) The function enables the latch shutdown by external signal.
- Various Protections Overcurrent Protection (OCP)------ Auto-Restart

	Three-step protections depending on overcurrent status	
Overload Protection (OLP)	Latch Shutdown	
Overvoltage Protection (OVP)	Latch Shutdown	
External Latch Protection (ELP)	Latch Shutdown	
Thermal Shutdown Protection (TSD)	Latch Shutdown	

Applications

Switching Power Supplies for Digital Consumer Equipment; LCD-TVs, PDP-TVs, etc OA Equipment; Severs, Multi-Function Printers, etc., Industry Machines, Communication Devices, Others

■ Product Lineup

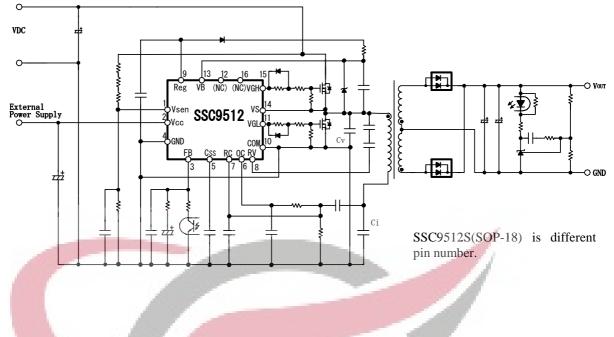
Product No	Package
SSC9512	DIP-16
SSC9512S	SOP-18





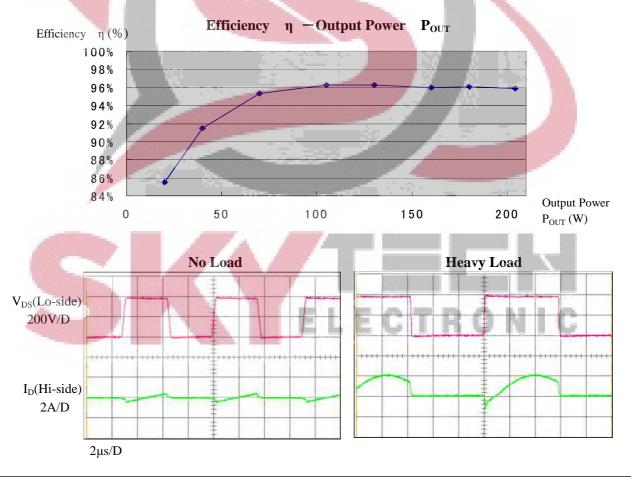
SOP-18

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Typical Electrical Characteristics and Operation Waveforms Power Supply Characteristics

Input : 380VDC, Output : 24V/8.5A (204W), with Power MOSFET R_{DS(ON)}: 0.56Ω



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