## SSC9512 Series

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

## ■ General Descriptions

The SSC9512 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

DIP-16


SOP-18

- 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



## - 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 |

## Typical Application Circuit



Typical Electrical Characteristics and Operation Waveforms
Power Supply Characteristics
Input : 380VDC, Output : 24V/8.5A (204W), with Power MOSFET R $\mathrm{RSON}_{\mathrm{DS}}$ : $0.56 \Omega$



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