

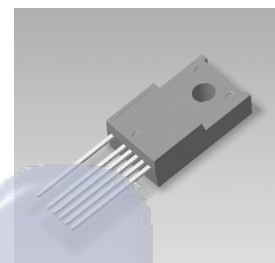


STR-W6200D Series

Power IC for PWM Type Switching Power Supply with Low Noise and Low Standby Power

General Descriptions

The STR-W6200D series products are power ICs for switching power supplies, incorporating a power MOSFET and a current-mode type PWM controller IC. The low standby power is accomplished by the automatic switching between the PWM operation in normal operation and the burst-oscillation under light load condition. The product achieves high cost-performance power supply systems with few external components.



TO-220F-6

Features

- Current-Mode Type PWM Control
- PWM with Jittering Function
The function reduces the EMI noise and enables simplified (low-cost) EMI filters.
The jittering period is adjustable by an external capacitor.
- Auto-Standby Function
The burst-oscillation enables the low standby power.
Input Power $P_{IN} < 100\text{mW}$ at no load
- Built-in Startup Circuit, enabling low power consumption
- Overcurrent Protection (OCP) with Built-in Input Compensation Circuit
The function has less AC input voltage dependency.
- Overload Protection (OLP) with Built-in Delay Timer (the delay time is adjustable by an external capacitor)
- External Latch Protection (ELP)
The function enables the latch shutdown by external signal.
- Bias-Assist Function, reducing operating V_{CC} voltage drop
The function improves the startup operation and makes a low V_{CC} capacitor applicable.
- Leading Edge Blanking Function
- Slope Compensation Function
- Built-in Avalanche Energy Guaranteed High-Voltage Power MOSFET
- Various Protections
 - Overcurrent Protection (OCP)----- Pulse-by-Pulse
 - Overload Protection (OLP) ----- Auto-Restart
 - Overvoltage Protection (OVP) ----- Latch Shutdown
 - Thermal Shutdown Protection (TSD) ----- Latch Shutdown

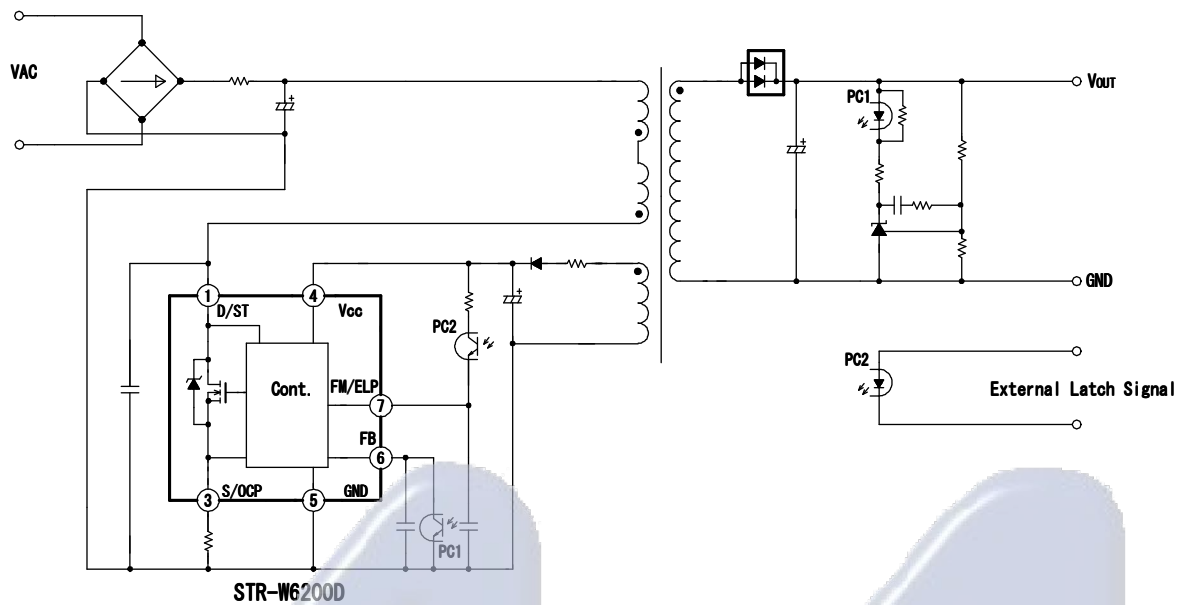
Applications

Switching Power Supplies for

Home Appliances (White Goods), Digital Consumer Equipment, OA Equipment, Industry Machines, Communication Devices, Others

Product Lineup

Product No.	f_{OSC} (kHz)	MOSFET V_{DSS} (MIN) (V)	$R_{DS(ON)}$ (MAX) (Ω)
STR-W6251D	67	650	3.95
STR-W6252D	67	650	2.8
STR-W6253D	67	650	1.9



■ Typical Electrical Characteristics

STR-W6251D Power Supply Characteristics

Input: 85 - 264VAC, P_{OUT}: 10W (5V/2A)

