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STR-A6000 Series

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

■ General Descriptions

The STR-A6000 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 conditions. The product achieves high cost-performance power supply systems with few external components.



DIP-8

■ Features

- Current-Mode Type PWM Control
- Built-in Random Switching Function
The function reduces the EMI noise and enables a simplified (low-cost) EMI filter, by the slight-random-change of PWM frequency f_{osc} .
- Auto-Standby Function: The burst-oscillation enables the low standby power. Input Power $P_{in} < 25mW$ at no load
- Built-in Startup Circuit, enabling low power consumption
- Brown-In / Brown-Out Function
The function enables the oscillation start/stop by externally rated input voltage and makes protections at low input voltage.
- Overcurrent Protection (OCP) with Built-in Input Compensation Circuit
The protection is less V_{in} input voltage dependency
- Overload Protection (OLP) with Built-in Delay Timer
- High-Speed Latch Release Function
The function releases the latch immediately at AC supply OFF, after the latch protection operation.
- Bias-Assist Function, reducing Operating V_{in} voltage drop
The function improves the startup operation and makes a low V_{in} capacitor applicable
- Leading Edge Blanking Function
- Slope Compensation Function
- Built-in Avalanche Energy Guaranteed High-Voltage Power MOSFET
- Protections
 - Overcurrent Protection (OCP).....Pulse-by-Pulse
 - Overload Protection (OLP).....Auto-Restart
 - Overvoltage Protection (OVP).....Latch Shutdown
 - Thermal Shutdown Protection (TSD).....Latch Shutdown

■ Applications

- Battery Chargers, Mobile Phones, Digital Cameras, Camcorders, Electric Shavers, Emergency/Inducement Lights etc.
- Standby Power Supplies; LCD-TVs, PDP-TVs, Desk-Top PCs, Laptops, Audio Equipment, etc.
- Small SMPSs; Ink Jet Printers, BD/DVD Players, CD Players, Set-Top-Boxes, etc.
- Auxiliary Power Supplies for Controllers, Air Conditioners, Refrigerators, Washing Machines, Dish Washers, etc.

■ Product Lineup

Product No	Operation Frequency (kHz)	MOSFET V_{DS} MIN (V)	$R_{DS(on)}$ MAX (Ω)	P_{OUT} (Note 1) 230VAC/Universal
STR-A6051M	67	650	3.95	16W / 12W
STR-A6052M			2.8	20W / 16W
STR-A6053M			1.9	24W / 20W
STR-A6059H			6.0	10W / 8W
STR-A6061H	100	700	3.95	13W/11W
STR-A6061HD			3.95	13W/11W
STR-A6062H			2.8	15W / 13W
STR-A6069H			6.0	10W / 8W
STR-A6079M	67	800	19.2	8W / 5W

Note 1: The maximum output power is derived from thermal specifications. The actual output power may be available around 120 ~140% of the above values, respectively, but may be limited by ON duty setting on transformer design or lower output voltage.



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