# STR-L400 Series

# Power IC for Quasi-Resonant Type Switching Power Supply with High Efficiency, Low Noise Low-Height, and Enough Creepage Isolation (>6mm) between High and Low Voltage Terminals

## General Descriptions

The STR-L400 series products are power ICs for quasi-resonant switching type power supplies, incorporating a power MOSFET and a controller IC in the SIP-10 package. The product achieves high efficiency and low noise power supply systems by the quasi-resonant operation. The product is recommended for the systems requiring low-height and enough clearance and creepage isolation between high and low voltage terminals.



### ■ Features

- Quasi-Resonant Operation
- Current-Mode Control
- Built-in Oscillator for Low Frequency Operation The operation with low frequency of 50µs OFF time (around 22 kHz), until the quasi-resonant signal becomes valid, reduces the stress on components at startup and load-shorted.
- SIP-10 Package (Sanken designation: STA-10L), recommended for auxiliary power supplies of White Goods. Straight lead pitch: 2.54mm, Height over PCB: < 12mm

Clearance and Creepage Isolation on PCB between high and low voltage terminals: 6.5mm (4 pins removed)

- Input Compensation at Overcurrent The function reduces the distortion of overcurrent operation point to AC input voltage change by adding three components.
- Built-in Avalanche Energy Guaranteed High-Voltage Power MOSFET
- Various Protections
  - Overcurrent Protection (OCP)----- Pulse-by-Pulse
  - Overload Protection (OLP) ------ Latch Shutdown

Thermal Shutdown Protection (TSD) ------ Latch Shutdown

## Applications

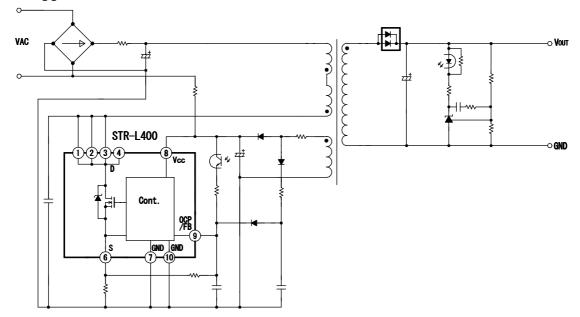
Switching Power Supplies for

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

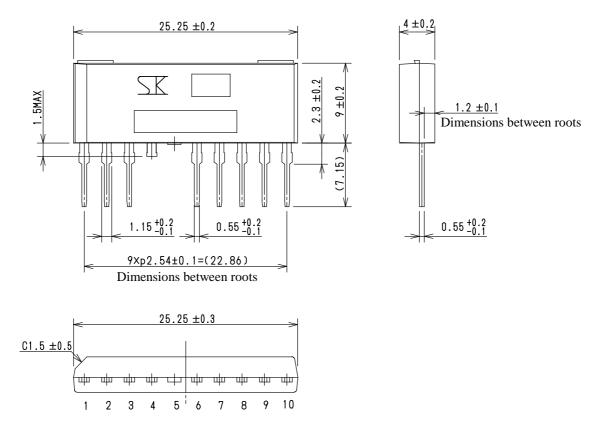
### ■ Product Lineup

Product No	MOSFET V <sub>DSS</sub> MIN(V)	$R_{DS(ON)}$ MAX ( $\Omega$ )
STR-L451	650	3.95
STR-L472	900	7.7

**Typical Application Circuit** 



#### Package Information SIP-10 (Sanken designation : STA-10L)



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