SLTS050A

(Revised 6/30/2000)

The PT7747 is a high-performance 15 Amp "Current Booster" for the PT7750 Series housed in a 27-pin SIP package. Multiple PT7747 boosters will operate in parallel with the PT7750 Series boosting output current in increments of 15A. Combinations of PT7750s and PT7747 current boosters can easily supply enough power for virtually any multiple megaprocessor application.

A PT7747 current booster adds a parallel output stage driven by the PT7750. As such, the system runs in perfect sychronization providing a low noise solution.

The PT7747 only operates in combination with the PT7750 series and is not a stand-alone product. Therefore please refer the PT7750 series data sheet for performance specifications. The PT7747 also has the same mechanical dimensions and package options as the PT7750 series.

Features

- 15A Current Boost
- Automatically Tracks Vout of PT7750
- · High Efficiency
- Input Voltage Range: 20V to 28V
- Synchronized with PT7750
- 27-pin SIP Package
- Run up to 4 in Parallel 75 Amps

Pin-Out Information

Function	Pin	Function
Do not connect	14	GND
Do not connect	15	GND
Do not connect	16	GND
Do not connect	17	GND
Do not connect	18	GND
Do not connect	19	GND
V _{in}	20	V _{out}
V _{in}	21	V _{out}
Vin	22	V _{out}
V _{in}	23	V _{out}
Vin	24	V _{out}
Do not connect	25	V _{out}
GND	26	Do not connect
	27	Sync In
	$\begin{array}{c} \text{Do not connect} \\ \text{Vin} \\ \text{Vin} \\ \text{Vin} \\ \text{Vin} \\ \text{Vin} \\ \text{On the connect} \\ \text{Vin} \\ \text{Vin} \\ \text{On the connect} \\ \text{Vin} $	Do not connect

Ordering Information

PT7747□

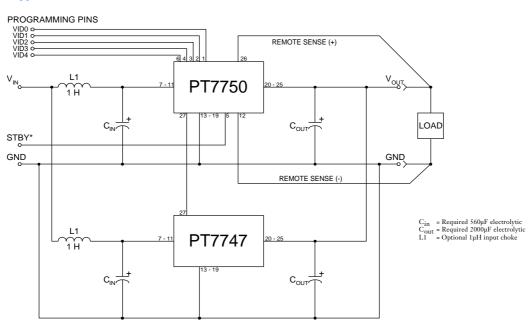
PT Series Suffix (PT1234X)

Case/Pin

Configuration	
Vertical Through-Hole	N
Horizontal Through-Hole	A
Horizontal Surface Mount	C

(For dimensions and PC board layout, see Package Styles 1000 and 1010.)

Standard Application



Output Capacitors: The PT7750/PT7747 series requires a minimum output capacitance of 2000µF for proper operation. Do not use Oscon type capacitors. The maximum allowable output capacitance is (42,000 + Vout)µF for the PT7751, (96,000 + Vout)µF for the PT7756, or 15,000µF, whichever is less.

Input Filter: An input inductor is optional for most applications. The input inductor must be sized to handle 9ADC with a typical value of 1µH. The input capacitance must be rated for a minimum of 8.0 Arms of ripple current when operated at maximum output current and maximum output voltage. Contact an applications engineer for input capacitor selection for applications at other output voltages and output currents.



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